
CHAPTER 1

Preface

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Preface

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Regulations Information

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and radiates radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

NOTE

- ♦ The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- ♦ Shield interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

CE Conformity



This device is in compliance with the essential safety requirements and other relevant provisions set out in the European Directive.

Safety Instructions



- ♦ Read the safety instructions carefully and thoroughly.
 - ♦ All cautions and warnings on the equipment or user's manual should be noted.
-



Keep the User's Guide that comes with the package for future reference.



Keep this equipment away from humidity and high temperature.



Lay this equipment on a stable surface before setting it up.



The openings on the enclosure are used for air convection and to prevent the equipment from overheating. Do not cover the openings.



- ◆ Do not leave the equipment in an unconditioned environment with a storage temperature above 60°C (140°F) or below 0°C (32°F), which may damage the equipment.
- ◆ The unit should be operated under maximum ambient temperature of 40°C (120°F).



- ◆ Make sure the power voltage is within safety range and has been adjusted properly to the value of 100~240V before connecting the equipment to the power outlet.
- ◆ Always unplug the AC power cord before installing any add-on card or module to the equipment.
- ◆ Always disconnect the AC power cord or uninstall the battery pack or switch off the wall socket if the equipment would be left unused for a certain time to achieve zero energy consumption.



Never pour liquid into the opening that could damage the equipment or cause an electrical shock.



Place the power cord in a way that people are unlikely to step on it. Do not place anything on top of the power cord.



Always keep the strong magnetic or electrical objects away from the equipment.



- ♦ When installing the coaxial cable to the TV Tuner, it is necessary to ensure that the metal shield is reliably connected to protective earthing system of the building.
- ♦ Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.



- ♦ To prevent explosion caused by improper battery replacement, use the same or equivalent type of battery recommended by the manufacturer only.
- ♦ Always keep the battery in a safe place.

If any of the following situations arises, get the equipment checked by a service personnel:



- ♦ The power cord or plug is damaged.
- ♦ Liquid has penetrated into the equipment.
- ♦ The equipment has been exposed to moisture.
- ♦ The equipment has not worked well or you can not get it work according to User's Manual.
- ♦ The equipment was dropped and damaged.
- ♦ The equipment has obvious signs of breakage.

**Green Product Features**

- Reduced energy consumption during use and stand-by
- Limited use of substances harmful to the environment and health
- Easily dismantled and recycled
- Reduced use of natural resources by encouraging recycling
- Extended product lifetime through easy upgrades
- Reduced solid waste production through take-back policy

Environmental Policy

- The product has been designed to enable proper reuse of parts and recycling and should not be thrown away
- Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.



廢電池請回收

For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

Safety Guideline for Using Battery

(English) **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

(French) **(Français) ATTENTION:** Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

(German) **(Deutsch) VORSICHT:** Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleichwertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

(Spanish) **(Español) PRECAUCIÓN:** Peligro de explosión si la batería es reemplazada incorrectamente. Cámbiela solo por la misma o un tipo equivalente recomendado por el fabricante. Descarte usar baterías usadas de acuerdo con las instrucciones del fabricante.

(Italian) **(Italiano) ATTENZIONE:** Pericolo di esplosione della batteria se sostituita in modo non corretto. Sostituire solo con la stesso tipo o con uno equivalente come indicato nel manuale del produttore. Smaltire le batterie usate come da istruzioni del produttore.

(Russian) **(Русский) Внимание:** Существует опасность взрыва батареи в случае неправильной замены. Для замены всегда используйте такую же или эквивалентную, рекомендованную производителем оборудования. Следуйте инструкциям производителя при утилизации использованных батарей.

(Turkish) (Türkçe) UYARI: Pili yanlış yerleştirilirse patlayabilir. Aynı ya da muadili bir pille değiştiriniz. Kullanılmış pilleri üreticinin talimatlarına göre değerlendiriniz.

(Greek) (Ελληνικά) ΠΡΟΣΟΧΗ: Κίνδυνος έκρηξης εάν η μπαταρία τοποθετηθεί λανθασμένα. Να αντικαθιστάτε μόνο με τον ίδιο ή αντίστοιχο τύπο με αυτό που συνιστά ο κατασκευαστής του εξοπλισμού. Να απορρίπτετε τις χρησιμοποιημένες μπαταρίες ως απορρίμματα σύμφωνα με τις οδηγίες του κατασκευαστή.

(Polish) (Polski) OSTRZEŻENIE: Nieprawidłowa wymiana może spowodować eksplozję baterii. Zamianę można wykonać wyłącznie na baterię tego samego lub równoważnego typu zalecaną przez producenta urządzenia. Zużyte baterie można wyrzucać zgodnie z instrukcjami producenta.

(Hungarian) (Magyar) VIGYÁZAT: A nem megfelelő akkumul tor haszn lata robban svesz lyes. Kizárólag ugyanolyan, vagy a berendezés gyártója által ajánlott, egyenértékű típust használjon. Az elhasznált akkumulátorokat a gyártó utasításának megfelelően ártalmatlanítsák.

(Czech) (Čeština) UPOZORNĚNÍ: Nebezpečí výbuchu při chybné výměně baterie. Nahradte pouze stejným nebo ekvivalentním typem doporučeným výrobcem zařízení. Použité baterie zlikvidujte podle pokynů výrobce

(Traditional Chinese) (繁體中文) 注意: 電池若未正確更換, 可能會爆炸。請用原廠建議之同款或同等級的電池來更換。請依原廠指示處理廢棄電池。

(Simplified Chinese) (简体中文) 注意: 电池若未正确更换, 可能会爆炸。请用原厂建议之同款或同等级的电池来更换。请依原厂指示处理废弃电池。

(Japanese) (日本語) 警告: バッテリーの取り扱いを誤ると、液漏れや破裂などにより生命や財産に重大な影響を及ぼす恐れがあります。指定された型番以外のバッテリーは使用しないでください。バッテリーを廃棄する場合は、各自治体の規則に従って適切に処理して下さい。

(Korean) (한국어) 경고:발열,화재,폭발 등의 위험을 수반할 수 있으니 다음 사항을 지켜주시기 바랍니다.

- a) 육안으로 식별이 가능한 정도의 부풀음이 발생된 전지는 위험할 수 있으므로 제조자 또는 판매자로 즉시 문의할 것
- b) 지정된 정품 충전기만을 사용할 것
- c) 화기에 가까이 하지 말것(전자레인지에 넣지 말 것)
- d) 여름철 자동차 내부에 방치하지 말 것
- e) 찢질방 등 고온다습한 곳에서 보관, 사용하지 말 것
- f) 이불 전기장판 카펫 위에 올려 놓고 장시간 사용하지 말 것
- g) 전원을 켜 상태로 밀폐된 공간에 장시간 보관하지 말 것
- h) 전지 단자에 목걸이, 동전, 열쇠, 시계 등 금속 제품이 닿지 않도록 주의할 것
- i) 휴대 기기, 제조업체가 보증한 리튬 2 차전지 사용할 것
- j) 분해, 압착, 관통 등의 행위를 하지 말 것
- k) 높은 곳에서 떨어뜨리는 등 비정상적 충격을 주지 말 것
- l) 60℃이상의 고온에 노출하지 말 것
- m) 습기에 접촉되지 않도록 할 것

(Vietnamese) (Tiếng Việt) LƯU Ý: Thay thế pin không tương thích có thể dẫn đến nguy cơ bị nổ. Chỉ thay thế bằng pin cùng loại hoặc loại tương ứng khuyến dùng bởi nhà sản xuất thiết bị. Vứt bỏ pin đã sử dụng theo hướng dẫn của nhà sản xuất.

(Thai) (ไทย) ข้อควรระวัง: ถ้าใส่แบตเตอรี่อย่างไม่ถูกต้อง อาจมีอันตรายจากการเกิดขึ้นได้ ใช้เฉพาะแบตเตอรี่ชนิดเดียวกัน หรือเทียบเท่า ที่แนะนำโดยผู้ผลิตอุปกรณ์เท่านั้น ทั้งแบตเตอรี่ที่ใช้แล้วควมำเนินการอย่างผู้ผลิต

(Indonesian) (Bahasa Indonesia) PERHATIAN: Bahaya ledakan dapat terjadi jika salah memasang baterai. Ganti baterai hanya dengan jenis yang sama atau setara sesuai rekomendasi pabrik peralatan tersebut. Buang baterai bekas

sesuai petunjuk pabrik

(Serbian) (Srpski) OPREZ: Ukoliko baterija nije ispravno postavljena, postoji opasnost od eksplozije. Zamenu izvršite koristeći isključivo istu ili ekvivalentnu bateriju koju preporučuje proizvođač opreme. Odbacite iskorišćene baterije u skladu sa uputstvima proizvođača.

(Netherlands) (Nederlands) LET OP: Er is explosiegevaar als de batterij niet goed geplaatst wordt. Uitsluitend te vervangen door een batterij van hetzelfde of een gelijkwaardig type, zoals aanbevolen door de fabrikant. Gooi batterijen weg volgens de plaatselijke instructies.

(Romanian) (Română) ATENȚIE: Pericol de explozie dacă bateria este înlocuită incorect. Înlocuiți doar cu același tip sau echivalent recomandat de fabricantul echipamentului. Evacuați bateriile folosite conform instrucțiunilor fabricantului.

(Portuguese) (Português) ADVERTÊNCIA: Perigo de explosão se a bateria é substituída incorretamente. Substitua somente com o mesmo tipo ou equivalente recomendado por o fabricante do seu equipamento. Descarte as baterias utilizadas de acordo com as instruções do fabricante.

(Swedish) (Svenska) VARNING: Explosionsfara vid felaktigt batteritype. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruction.

(Finnish) (Suomi) VAROITUS: Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan valmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

(Slovak) (Slovenčina) UPOZORNENIE: V prípade nesprávnej výmeny batérie existuje nebezpečenstvo výbuchu. Vymeňte iba za rovnakú batériu alebo za rovnocenný typ batérie, ktorý odporúča výrobca zariadenia. Batérie zneškodnite podľa pokynov výrobcu.

(Slovenian) (Slovenščina) POZOR: V primeru nepravilne zamenjave baterije obstaja nevarnost njene eksplozije.

Baterijo zamenjajte le z enako ali ekvivalentno vrsto, ki jo priporoča proizvajalec. Odpadne baterije odstranite skladno z navodili proizvajalca.

(Danish) (Dansk) ADVARSEL! Lithiumbatteri --- Eksplosionsfare ved fejlagtig håndtering. Udskitning må kun ske med batteri af same fabrikat og type. Lev det brugte batteri tilbage til leverandøren.

(Norwegian) (Norsk) ADVARSEL: Eksplosjonsfare ved feilaktig skifte av batteri. Benytt same batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

(Bulgarian) (Български) ВНИМАНИЕ: Опасност от експлозия ако батерията бъде неправилно поставена. Поставете батерия от същия вид или еквивалентна батерия, която се препоръчва от производителя. Изхвърлете използваните батерии като спазвате указанията на производителя.

(Croatian) (Hrvatski) OPREZ: Opasnost od eksplozije ako se baterija zamijeni neprikladnom. Zamijenite je samo jednakom ili nadomjesnom vrstom prema preporuci proizvođača. Istrošene baterije zbrinite u skladu s uputama proizvođača.

(Estonian) (Eesti) ETTEVAATUST! Plahvatusoht, kui aku on valesti paigaldatud. Asendage ainult sama või tootja poolt soovitatud võrdväärse akuga. Hävitage kasutatud aku vastavalt tootja juhistele.

(فارسی) (Persian)

أخطار: در صورت عدم نصب و جا گذاری صحیح باتری، احتمال انفجار باتری وجود دارد. در صورت تعویض باتری، تنها از باتریهای پیشنهادی شرکت تولید کننده استفاده نمایید. از دور انداختن باتری خودداری کنید و بر طبق راهنمایی شرکت تولید کننده عمل نمایید.

(العربية) (Arabic)

تحذير: قد تتعرض البطارية للانفجار والتلف إذا تم استبدالها بنوع غير أصلي. استبدل فقط بنفس أو نوع مكافئ أصلي به من قبل منتج الجهاز. تجاهل البطاريات المستعملة وفقا لإرشادات الشركة المصنعة.



WEEE Statement

(English) Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

(French) (Français) Au sujet de la directive européenne (EU) relative aux déchets des équipement électriques et électroniques, directive 2002/96/EC, prenant effet le 13 août 2005, que les produits électriques et électroniques ne peuvent être déposés dans les décharges ou tout simplement mis à la poubelle. Les fabricants de ces équipements seront obligés de récupérer certains produits en fin de vie.

(German) (Deutsch) Gemäß der Richtlinie 2002/96/EG über Elektro- und Elektronik-Altgeräte dürfen Elektro- und Elektronik-Altgeräte nicht mehr als kommunale Abfälle entsorgt werden, die sich auf 13. August, 2005 wirken. Und der Hersteller von bedeckt Elektronik-Altgeräte gesetzlich zur gebrachten Produkte am Ende seines Baruchbarkeitsdauer zurückzunehmen.

(Spanish) (Español) Bajo la directiva 2002/96/EC de la Unión Europea en materia de desechos y/o equipos electrónicos, con fecha de rigor desde el 13 de agosto de 2005, los productos clasificados como "eléctricos y equipos electrónicos" no pueden ser depositados en los contenedores habituales de su municipio, los fabricantes de equipos electrónicos, están obligados a hacerse cargo de dichos productos al termino de su periodo de vida.

(Italian) (Italiano) In base alla Direttiva dell'Unione Europea (EU) sullo Smaltimento dei Materiali Elettrici ed Elettronici, Direttiva 2002/96/EC in vigore dal 13 Agosto 2005, prodotti appartenenti alla categoria dei Materiali Elettrici ed Elettronici

non possono più essere eliminati come rifiuti municipali: i produttori di detti materiali saranno obbligati a ritirare ogni prodotto alla fine del suo ciclo di vita.

(Russian) (**Русский**) В соответствии с директивой Европейского Союза (ЕС) по предотвращению загрязнения окружающей среды использованным электрическим и электронным оборудованием (директива WEEE 2002/96/EC), вступающей в силу 13 августа 2005 года, изделия, относящиеся к электрическому и электронному оборудованию, не могут рассматриваться как бытовой мусор, поэтому производители вышеперечисленного электронного оборудования обязаны принимать его для переработки по окончании срока службы.

(Turkish) (**Türkçe**) Avrupa Birliği (AB) Karamamesi Elektrik ve Elektronik Malzeme Atığı, 2002/96/EC Karamamesi altında 13 Ağustos 2005 tarihinden itibaren geçerli olmak üzere, elektrikli ve elektronik malzemeler diğer atıklar gibi çöpe atılamayacak ve bu elektronik cihazların üreticileri, cihazların kullanım süreleri bittikten sonra ürünleri geri toplamakla yükümlü olacaktır.

(Greek) (**Ελληνικά**) Σύμφωνα με την Οδηγία 2002/96/ΕΚ της Ευρωπαϊκής Ένωσης («ΕΕ») περί Απόρριψης Ηλεκτρικού και Ηλεκτρονικού Εξοπλισμού (WEEE), η οποία λαμβάνει ισχύ στις 13 Αυγούστου 2005, τα προϊόντα «ηλεκτρικού και ηλεκτρονικού εξοπλισμού» δεν είναι δυνατόν να απορριφθούν πλέον ως κοινά απορρίμματα και οι κατασκευαστές καλυπτόμενου ηλεκτρονικού εξοπλισμού είναι υποχρεωμένοι να πάρουν πίσω αυτά τα προϊόντα στο τέλος της ωφέλιμης ζωής τους.

(Polish) (**Polski**) Zgodnie z Dyrektywą Unii Europejskiej ("UE") dotyczącą odpadów produktów elektrycznych i elektronicznych (Dyrektywa 2002/96/EC), która wchodzi w życie 13 sierpnia 2005, tzw. "produkty oraz wyposażenie elektryczne i elektroniczne" nie mogą być traktowane jako śmieci komunalne, tak więc producenci tych produktów będą zobowiązani do odbierania ich w momencie gdy produkt jest wycofywany z użycia.

(Hungarian) (Magyar) Az Európai Unió („EU”) 2005. augusztus 13-án hatályba lépő, az elektromos és elektronikus berendezések hulladékaíró szóló 2002/96/EK irányelve szerint az elektromos és elektronikus berendezések többé nem kezelhetők lakossági hulladékként, és az ilyen elektronikus berendezések gyártói köteleessé válnak az ilyen termékek visszavételére azok hasznos élettartama végén.

(Czech) (Čeština) Podle směrnice Evropské unie (”EU”) o likvidaci elektrických a elektronických výrobků 2002/96/EC platné od 13. srpna 2005 je zakázáno likvidovat ”elektrické a elektronické výrobky” v běžném komunálním odpadu a výrobci elektronických výrobků, na které se tato směrnice vztahuje, budou povinni odebírat takové výrobky zpět po skončení jejich životnosti.

(Traditional Chinese) (繁體中文) 歐盟已制訂有關廢電機電子設備法令，亦即自 2005 年 8 月 13 日生效的 2002/96/EC，明文規定「電機電子設備產品」不可再以都市廢棄物處理，且所有相關電子設備製造商，均須在產品使用壽命結束後進行回收。

(Simplified Chinese) (简体中文) 欧盟已制订有关废电机电子设备法令，亦即自 2005 年 8 月 13 日生效的 2002/96/EC，明文规定「电机电子设备产品」不可再以都市废弃物处理，且所有相关电子设备制造商，均须在产品使用寿命结束后进行回收。

(Japanese) (日本語) 2005 年 8 月 13 日以降に EU 加盟国を流通する電気・電子製品には WEEE 指令によりゴミ箱に×印のリサイクルマークの表示が義務づけられており、廃棄物として捨てることの禁止とリサイクルが義務づけられています。

(Korean) (한국어) 2005 년 8 월 13 일자로 시행된 폐전기전자제품에 대한 유입연한(”EU”) 지침, 지침 2002/96/EC 에 의거하여, ”전기전자제품”은 일반 쓰레기로 폐기할 수 없으며 제품의 수명이 다하면 해당 전자제품의 제조업체가 이러한 제품을 회수할 책임이 있습니다.

(Vietnamese) (**Tiếng Việt**) Theo Hướng dẫn của Liên minh Châu Âu ("EU") về Thiết bị điện & điện tử đã qua sử dụng, Hướng dẫn 2002/96/EC, vốn đã có hiệu lực vào ngày 13/8/2005, các sản phẩm thuộc "thiết bị điện và điện tử" sẽ không còn được vứt bỏ như là rác thải đồ thị nữa và các nhà sản xuất thiết bị điện tử tuân thủ hướng dẫn sẽ phải thu hồi các sản phẩm này vào cuối vòng đời.

(Thai) (**ไทย**) ภายใต้ข้อกำหนดของสหภาพยุโรป ("EU") เกี่ยวกับของเสียจากอุปกรณ์ไฟฟ้า และอิเล็กทรอนิกส์ เลขที่ 2002/96/EC ซึ่งมีผลบังคับใช้ตั้งแต่วันที่ 13 สิงหาคม 2005 ผู้ใช้ไม่สามารถทิ้งผลิตภัณฑ์ที่เป็น "อุปกรณ์ไฟฟ้าและอิเล็กทรอนิกส์" ปะปนกับของเสียทั่วไปของชุมชนได้อีกต่อไป และผู้ผลิตอุปกรณ์อิเล็กทรอนิกส์ดังกล่าวจะถูกบังคับให้นำผลิตภัณฑ์ดังกล่าวกลับคืนเมื่อสิ้นสุดอายุการใช้งานของผลิตภัณฑ์

(Indonesian) (**Bahasa Indonesia**) Sesuai dengan Regulasi Uni Eropa ("UE") perihal WEEE (Limbah Peralatan Listrik dan Elektronik), Directive 2002/96/EC, yang berlaku sejak 13, 2005, produk "peralatan listrik dan elektronik" tidak lagi dapat dibuang sebagai sampah umum dan pabrik peralatan elektronik diwajibkan untuk mengambil kembali produk tersebut pada saat masa pakainya habis.

(Serbian) (**Srpski**) Po Direktivi Evropske unije ("EU") o odbačenju eelektronskoj i električnoj opremi, Direktiva 2002/96/EC, koja stupa na snagu od 13. Avgusta 2005, proizvodi koji spadaju pod "elektronsku i električnu opremu" ne mogu više biti odbačeni kao običan otpad i proizvođači ove opreme biće prinuđeni da uzmu natrag ove proizvode na kraju njihovog uobičajenog veka trajanja.

(Netherlands) (**Nederlands**) De richtlijn van de Europese Unie (EU) met betrekking tot Vervuiling van Electrische en Electronische producten (2002/96/EC), die op 13 Augustus 2005 in zal gaan kunnen niet meer beschouwd worden als vervuiling. Fabrikanten van dit soort producten worden verplicht om producten retour te nemen aan het eind van hun levenscyclus..

(Romanian) (**Română**) În baza Directivei Uniunii Europene ("UE") privind Evacuarea Echipamentului Electric și Electronic, Directiva 2002/96/EC, care intră în vigoare pe 13 august, 2005, produsele din categoria "echipament electric și electronic" nu mai pot fi evacuate ca deșeuri municipale, iar fabricanții echipamentului electronic vizat vor fi obligați să primească înapoi produsele respective la sfârșitul duratei lor de utilizare.

(Portuguese) (**Português**) De acordo com a Directiva 2002/96/EC de Resíduos de Equipamentos Eléctricos e Electrónicos da União Europeia (UE), efectiva desde o 13 de Agosto do ano 2005, os produtos de "equipamento eléctrico e electrónico" não podem ser descartados como resíduo municipal e os fabricantes do equipamento electrónico sujeitos a esta legislação estarão obrigados a recolher estes produtos ao finalizar sua vida útil.

(Swedish) (**Svenska**) Under Europeiska unionens ("EU") Weee-direktiv (Waste Electrical and Electronic Equipment), Direktiv 2002/96/EC, vilket trädde i kraft 13 augusti, 2005, kan inte produkter från "elektriska och elektroniska utrustningar" kastas i den vanliga hushållssoporna längre och tillverkare av inbyggd elektronisk utrustning kommer att tvingas att ta tillbaka sådan produkter när de är förbrukade.

(Finnish) (**Suomi**) Euroopan unionin (EU) 13.8.2005 voimaan tulleen sähkö- ja elektroniikkalaiteromua koskevan direktiivin 2002/96/EY mukaisesti "sähkö- ja elektroniikkalaitteita" ei saa enää hävittää talousjätteiden mukana. Direktiivin alaisen sähkö- tai elektroniikkalaitteen valmistajan on otettava laitteet takaisin niiden käyttöänsä päättyessä.

(Slovak) (**Slovenčina**) Na základe smernice Európskej únie („EU“) o elektrických a elektronických zariadeniach číslom 2002/96/ES, ktorá vstúpila do platnosti 13. augusta 2005, výrobky, ktorými sú „elektrické a elektronické zariadenia“ nesmú byť zneškodňované spolu s komunálnym odpadom a výrobcovia patričných elektronických zariadení sú povinní takého výrobky na konci životnosti prevziať naspäť.

(Slovenian) (**Slovenščina**) Skladno z določili direktive Evropske unije ("EU") o odpadni električni in elektronski opremi, Direktiva 2002/96/ES, ki je veljavna od 13. avgusta, izdelkov "električne in elektronske opreme" ni dovoljeno odstranjevati

kot običajne komunalne odpadke, proizvajalci zadevne elektronske opreme pa so zavezani, da tovrstne izdelke na koncu njihove življenjske dobe sprejmejo nazaj.

(Danish) (**Dansk**) I henhold til direktiv fra den europæiske union (EU) vedrørende elektrisk og elektronisk affald, Direktiv 2002/96/EC, som træder i kraft den 13. august 2005, må produkter som "elektrisk og elektronisk udstyr" ikke mere bortskaffes som kommunalt affald. Producenter af det pågældende, elektroniske udstyr vil være forpligtet til at tage disse produkter tilbage ved afslutningen på produkternes levetid.

(Norwegian) (**Norsk**) Under den europeiske unionens ("EU") direktiv om deponering av elektronisk og elektrisk utstyr, direktiv 2002/96/EC, som trer i effekt 13. august 2005, kan ikke produkter av "elektronisk og elektrisk utstyr" lenger deponeres som husholdningsavfall og fabrikantene av disse produktene er forpliktet å ta tilbake slike produkter ved slutten av produktets levetid.

(Bulgarian) (**Български**) Според директивата на Европейския съюз относно отпадъците от електрическо и електронно оборудване, директива 2002/96/EC, важаща от 13 август, 2005 г., електрическо и електронно оборудване не може да се изхвърля заедно с битовите отпадъци и производителите на такова оборудване са задължени да приемат обратно съответните продукти в края на експлоатационния им период.

(Croatian) (**Hrvatski**) U okviru Direktive Europske Unije ("EU") o Otpadnim električnim i elektroničkim uređajima, Direktiva 2002/96/EC, koja je na snazi od 13. kolovoza 2005., "električni i elektronički uređaji" se ne smiju više bacati zajedno s kućnim otpadom i proizvođači su obvezni zbrinuti takve proizvode na kraju njihovog životnog vijeka.

(Estonian) (**Eesti**) Vastavalt Euroopa Liidu ("EL") direktiivile 2002/96/EÜ (elektri- ja elektroonikaseadmete jäätmete kohta), mis jõustus 13. augustil 2005, on keelatud kodumajapidamiste "elektri- ja elektroonikaseadmete" jäätmete hävitamine koos majapidamisjäätmetega, ja elektri- ja elektroonikaseadmete tootjad on kohustatud sellised tooted pärast nende kasutuselt kõrvaldamist tagasi võtma.

(Persian) (فارسی)

اتحادیه اروپا) که از تاریخ 13 اگوست سال 2005 میلادی قبیل اجراست ، کلیه شرکت های 2002/96/EC بر طبق قانون دفع زیاده های الکتریکی و الکترونیکی (بند تولید کننده موظف به جمع آوری زیاده محصولات خود پس از پایان دوره مصرف می باشند.

(Arabic) (العربية)

في إطار اتفاقية الاتحاد الأوروبي ("الاتحاد الأوروبي") التوجيه بشأن نفايات المعدات و الأجهزة الكهربائية والإلكترونية، توجيه 2002/96/EC للمجموعة الأوروبية، الذي أصبح ساري المفعول في 13 أغسطس/آب، 2005، ان منتجات "أجهزة كهربائية والإلكترونية" لا يمكن التخلص منها بوصفها نفايات، ومنتجات المعدات الإلكترونية سيكون لزاما عليهم استرداد مثل هذه المنتجات في نهاية مدة صلاحيتها.

Trademarks

- All trademarks are the properties of their respective owners.

Revision History

Version	Revision History	Date
1.0	First Released	01, 2012

CHAPTER 2

Introductions

Congratulations on becoming an user of this product, the finely designed tablet PC. This brand-new exquisite tablet PC will give you a delightful and professional experience in using it. We are proud to tell our users that this product is thoroughly tested and certified by our reputation for unsurpassed dependability and customer satisfaction.

Manual Map

This User's Manual provides instructions and illustrations on how to operate this tablet PC. It is recommended to read this manual carefully before using this tablet PC.

Chapter 1, Preface, gives users the basic safety information and caution that is interrelated to using this tablet PC. It is recommended to read these information or caution when using this tablet PC for the first time.

Chapter 2, Introductions, includes the descriptions of all the accessories of this tablet PC. It is recommended to check out that if you have all the accessories included when you open the packing box. If any of these accessories is damaged or missing, please contact the vendor where you purchased this product. Also, this chapter provides the specification of this tablet PC, and introduces the function buttons, quick launch buttons, connectors, LEDs and externals of this product.

Chapter 3, Getting Started, gives the basic operation instructions on using this tablet PC. Beside, the steps of connecting the AC power; and the procedures of connecting the various external devices, communication devices, and so on, are also provided to help users getting familiar with this product.

Unpacking

First, unpack the shipping carton and check all items carefully. If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future. The package should contain the following items:



Tablet PC



Quick Start Manual



AC/DC adapter



USB to mini USB Cable



*These accessories listed
above may change without
notice.*

Specification

Physical Characteristic

Enjoy 7

Dimension	199 (W) x 123 (D) x 11.8 (H) mm
Weight	395g with battery

Enjoy 10

Dimension	245.9 (W) x 192.7 (D) x 11.2 (H) mm
Weight	648g with battery

CPU

Processor Type	ARM Cotex A8 / 1GHz
----------------	---------------------

Memory

Memory	512MB DDR3 DRAM
--------	-----------------

Storage (Items listed here may vary depending on the model users purchased)

Storage	4GB / 8GB (optional)
Special Notification	The actual storage preinstalled in this product depends on the model you purchased, and may vary without notice.

Power

Enjoy 7

AC/DC Adapter	5V, 2A
Battery Type	1 cell

Enjoy 10

AC/DC Adapter	12V, 2A
Battery Type	2 cells

I/O Port

Mini USB Connector	x 1 (Enjoy 7), x2 (Enjoy 10)
Headphone out	x 1
Mini HDMI Connector	x 1
Internal Microphone	x 1
Card Reader (Micro SD)	x 1 (Maximum 32GB)
The supported memory cards may vary without notice.	

Communication Port (Items listed here may vary without notice)

Wireless LAN	Supported
Bluetooth	Supported

Audio

Internal Speaker	2 speakers with housing
Sound Volume	Adjust by volume button

Display

Enjoy 7

LCD Type	7.0" LED panel
LCD Resolution	800 x 480

Enjoy 10

LCD Type	10.0" LED panel
LCD Resolution	1024 x 768
Multi Touch	Supported
Brightness	Brightness controlled by setting

WebCam

Front Webcam (optional)	Supported
Rear Webcam (optional)	Supported

Others

ALS Supported

e-Compass Supported

G-Sensor Supported

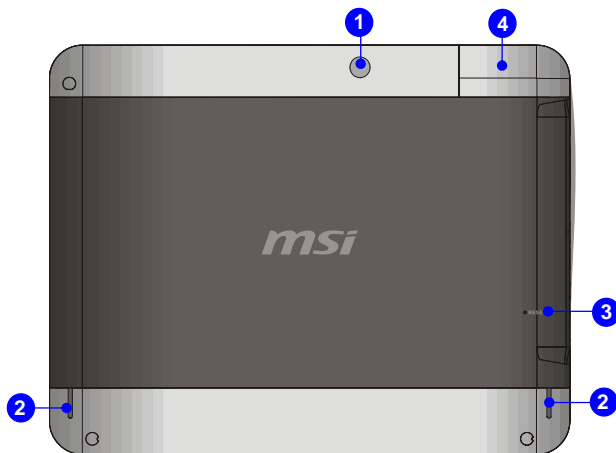
Motor Supported

Special Notification The actual function preinstalled in this product depends on the model you purchased, and may vary without notice.

Product Overview

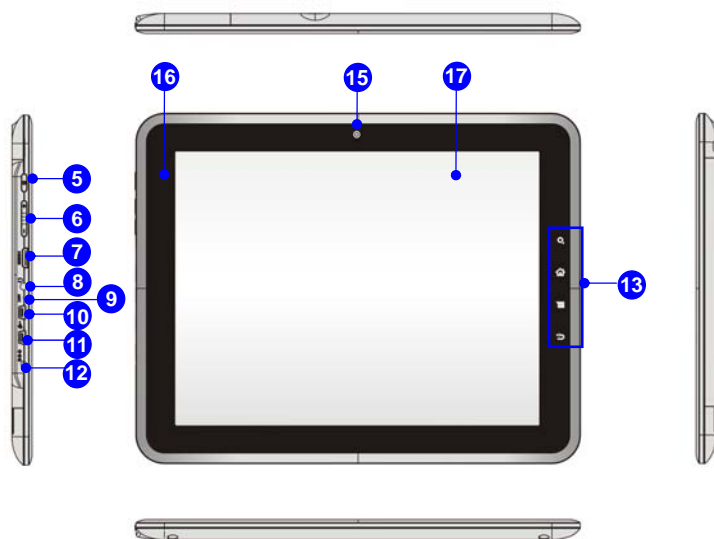
This section provides the description of basic aspects of this tablet PC. It will help you to know more about the appearance of this device before using it. Please be aware that the device shown in this section may vary from the actual one that users purchased.

Enjoy 10

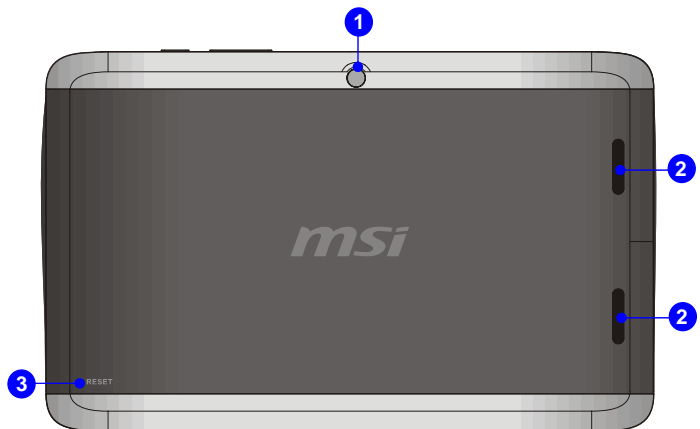


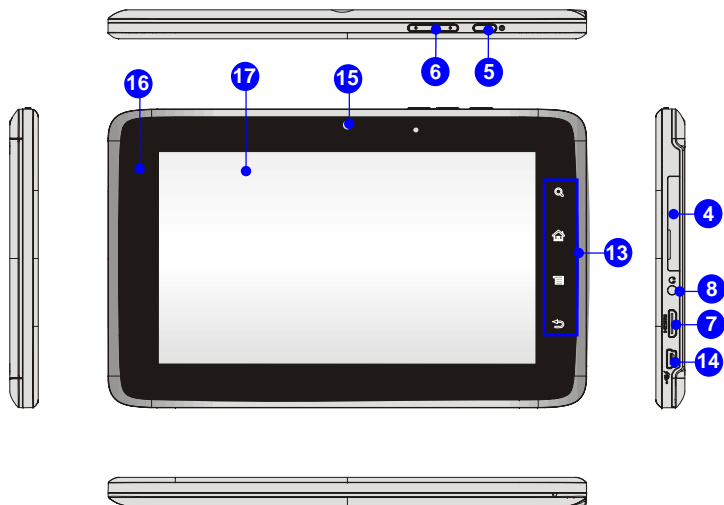
INFO

*The figures show here are
for reference only.*



Enjoy 7





1. Rear Webcam

This built-in Rear Webcam can be used for picture taking, video recoding or conferencing, and any other interactive applications.

2. Stereo Speakers

Give high quality sound blaster with stereo system and Hi-Fi function supported.

3. Reset Hole

When your tablet PC is crashed, you can use a straightened paperclip to inset the reset hole to reset the tablet PC.

4. Card Reader

The built-in card reader may support memory card – Micro SD (Secure Digital) card. Contact the local dealer for further and correct information and be noted that the supported memory card may vary without notice.

5. Power Button

Refer to following table for detailed power state.

6. Volume Up / Volume Down



Volume Up



Volume Down

- ◆ Press the **Volume Up** or **Volume Down** button to decrease or increase the sound volume.
- ◆ Read the icon on behalf of the Sound Level Status appearing on the display to learn the function status.

7. Mini HDMI Connector



HDMI (High Definition Multimedia Interface) is a new interface standard for PCs, displays and consumer electronics devices that supports standard, enhanced and high-definition video, plus multi-channel digital audio on a single cable.

8. Headphone Connector

Used for connecting the speakers or headphones.

9. Internal Microphone

This is the built-in microphone and its function is the same with microphone.

10. Mini USB Port (Host)

Through the USB to mini USB cable, the mini USB port allows you to connect USB-interface peripheral devices, such as mouse, keyboard, modem, portable hard disk module, printer and more.

11. Mini USB Port (Device)

The mini USB port allows you to connect to the tablet PC.

12. Power Connector

Provided to connect the AC/DC adapter and supply AC power for this tablet PC.

13. Quick Launch Touch Sensors

Use the quick launch touch sensors to activate the specific applications or tools. Refer to chapter 3 of this manual for the further information.

**Search**

- This key will launch Search application.

**Home**

- This key will switch to desktop.

**Menu**

- This key will launch Menu function.
-

**Return**

- This key will switch to the previous page or action .

14. Mini USB Port (Slave + Device)

Through the OTG cable, the mini USB port allows you to connect USB-interface peripheral devices, such as mouse, keyboard, modem, portable hard disk module, printer and more.

Besides, the mini USB port also allows you to connect to the tablet PC.

15. Front Webcam

This built-in Front Webcam can be used for picture taking, video recoding or conferencing, and any other interactive applications.

16. Status LED**Battery Status**

- Glowing amber when the battery is being charged.
- Glowing green when it is fully charged.
- Battery LED goes out when the AC/DC adapter is disconnected.

17. Multi Touch Display

This tablet PC is equipped with a user-friendly multi touch display which lets users use hands or finger gestures to interact with multi-media content, play games, read e-books, access documents, create special effects, manipulate art and photographs, and even surf on the internet, in a truly unique and compelling way.

CHAPTER 3

Getting Started

Power Management

Battery Power

This tablet PC is equipped with a high-capacity Lithium polymer battery pack. The rechargeable Lithium polymer battery pack is an internal power source of this device.

However, the battery equipped is not replaceable by users, and may be damaged if users try to disassemble the product and the battery pack installed inside on their own.

Also, note that the limited warranty to the product may also lose its efficacy when this product is disassembled not by an authorized machinist.

Please follow your local laws and regulations to recycle the product.

Conserving Battery Power

Efficient battery power is critical to maintain a normal operation. If the battery power is not managed well, the saved data and customized settings may be lost.

To optimize battery life and avoid a sudden power loss, read the tips below:

- Suspend system operation if the system will be idle for a while or shorten the suspend timer's time period.
- Turn off the system if you won't be using it for a period of time.
- Disable unnecessary settings or remove idle peripherals.
- Connect an AC/DC adapter to the system whenever possible.

Charging the Battery Pack

The battery pack equipped is rechargeable, however please pay attention to the following tips before recharging the battery:

- ♦ Plug in an external AC/DC adapter.
- ♦ You can use the system, suspend system operation or shut down and turn off the system without interrupting the charging process.
- ♦ The battery pack installed inside the device uses Lithium-ion battery cells that have no "memory effect." It is unnecessary to discharge the battery before recharging. However, to optimize the life of battery, we suggest that consuming the battery power completely once every three months.
- ♦ The actual charging time will be determined by the applications in use.

AC power

It is strongly recommended to connect the AC/DC adapter to the tablet PC and use the AC power while using this tablet PC for the first time. When the AC power is connected, recharging the battery will start immediately.

Note that the AC/DC adapter included in the package is approved for your tablet PC; using other adapter model may damage either the tablet PC or other devices attached to it.

Do not cover the AC/DC adapter since it may produce a certain heat while in use. Always be aware of heat coming from the AC/DC adapter in use.

Connecting the AC Power

1. Unpack the package to find the AC/DC adapter.
2. Plug the DC end of the adapter to the tablet PC, and plug the AC/DC adapter to the electrical outlet.

Disconnecting the AC Power

When disconnecting the AC/DC adapter, you should:

3. Unplug the AC/DC adapter from the electrical outlet first.
4. Unplug the DC end of the adapter from the tablet PC.



Basic Operations

If you are a beginner to this tablet PC, please read the following instructions to assure your own safety, and make yourself comfortable during the operations.

Safety and Comfort Tips

This tablet PC is a portable platform that allows you to work anywhere. However, choosing a good workspace is important if you are going to use your tablet PC for a long period of time.

- Your work area should have enough illumination.
- Choose the proper desk and chair and adjust their height to fit your posture when operating.
- Avoid using this tablet PC in the space where may cause you discomfort.
- Since this is an electrical device, please treat it with great care to avoid personal injury.
- The tablet PC should be operate under maximum ambient temperature of 40°C (120°F)

Having a Good Work Habit

Have a good work habit is important if you are going to use this tablet PC for long periods of time; otherwise, it may cause discomfort or injury to you. Please keep the following tips in mind when operating.

- Change your posture frequently.
- Stretch and exercise you body regularly.
- Remember to take a break after working for a period of time.

Power On the Tablet PC

To power on the tablet PC, follow the steps below:

1. Find the location of the Power Button as shown in the figure,
2. Press the Power Button to power on the tablet PC.



Unlock the Tablet PC

After power on the tablet PC, you can see the lock screen as below, please refer to the following instruction to unlock the tablet PC.

1. Tap and drag the lock icon upward as shown on the screen.



2. Then the unlock screen will show as below:



The Introduction of the Desktop



1. Home

Switch to desktop.

2. Battery Status

Show present battery status.

3. Time

Show present time.

4. Volume down

Decrease the sound volume.

5. Volume up

Increase the sound volume.

6. Return

Switch screen to the previous page or action.

7. Menu

Launch Menu function.

8. Browser

Launch the Internet browser.

9. Programs

Activate the programs list.

10. Setting

Change the setting of the tablet PC.

11. Programs Shortcuts

The shortcuts of the default programs.

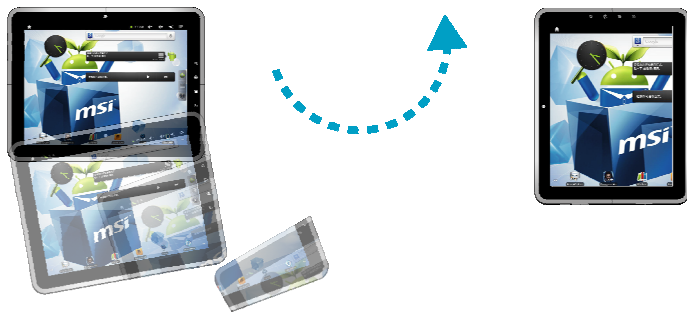
12. Page

Show the present page location.

Please be noted that the desktop may update depends on the firmware you use.

Rotating the Display

This tablet PC is equipped with G-sensor module which gives users an enjoyable experience in viewing web pages, documents, pictures, videos, etc. Whenever the display is rotated, the screen will be rotated and expanded to fit the display automatically.



Using the Quick Launch Touch Sensors

This tablet PC provides several quick launch touch sensors. Use these sensors to activate the specific applications or tools.



Search

- This key will Search application.



*The figures show here are
for reference only.*



Home

- This key will switch to desktop.



Menu

- This key will launch Menu function.






Return

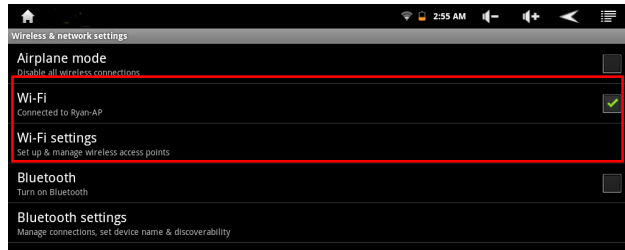
- This key will switch to the previous page.




Connecting the Network



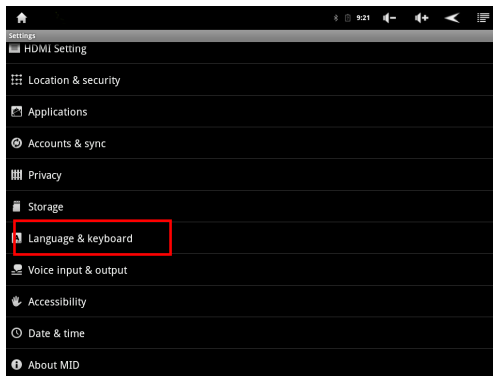
Tap "Setting" button on the main screen  → Select "Wireless & networks" → Select "Wi-Fi" to turn on WiFi firstly → Select "Wi-Fi settings", then the available wireless list will show on the screen. Choose one network that you would like to use and enter the authorized password you get.



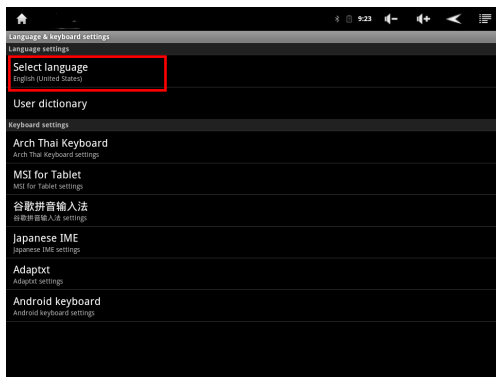
Language & Keyboard Settings

Tap "Setting" button on the main screen  → (1) Select "Language & Keyboard" → (2) Select "Select language" to (3) choose the language or (4) select the available keyboard settings.

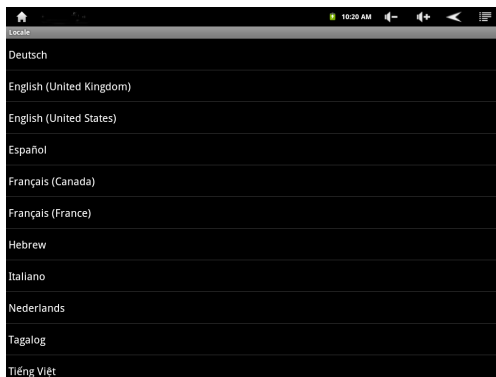
(1)



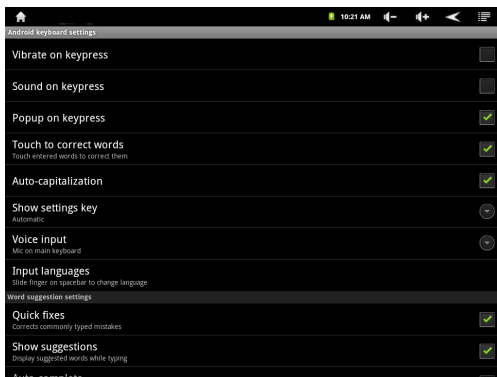
(2)



(3)



(4)

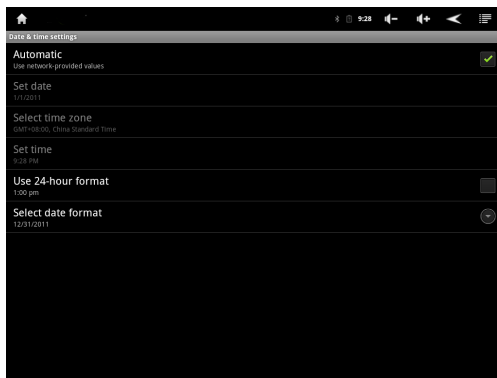


Date & Time Settings

Tap “Setting” button on the main screen



→ Select “Date & Time” to make the setting you need.



Connecting the External Devices

The I/O (input/output) ports on the tablet PC allow users to connect peripheral devices. All devices listed here are for reference only.

Connecting the Communication Devices

Using Wireless LAN Connection

This tablet PC is equipped with wireless LAN module which allows users to perform fast data transmission with the standard IEEE 802.11 for wireless LAN. This gives users the mobility to move around within a broad coverage area and still be connected to the network.

By using the 64-bit/128-bit Wired Equivalent Privacy (WEP) encryption technology and Wi-Fi Protected Access feature, the optional built-in wireless LAN is capable to achieve a more efficient and a more secure solution to the wireless communication.

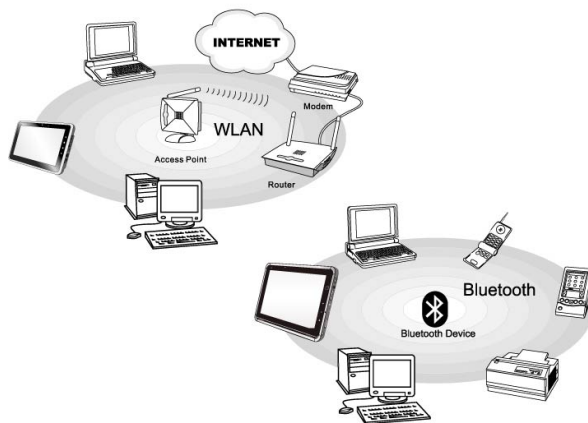
Using Bluetooth Connection

This tablet PC is equipped with Bluetooth module which allows users to connect various Bluetooth-enabled devices to the device. Bluetooth provides a way to connect and exchange information between devices such as mobile phones, personal computers, printers, GPS receivers, PDAs, digital cameras, and video game consoles through a secure, globally unlicensed Industrial, Scientific and Medical (ISM) 2.4 GHz short-range radio frequency bandwidth.

For more instructions or detailed steps on using the Wireless LAN and Bluetooth functions, please ask your MIS staff or network manager for help.



The devices shown in the reference figures here may be different from the devices users have.



Connecting the Peripheral Devices

Connecting the USB devices

This tablet PC provides mini USB ports for connecting various USB devices, such as mouse, keyboard, digital camera, webcam, printer, and external optical storage device, etc. To connect these devices, install the drivers for each device first if necessary, and then connect the device to the tablet PC. This tablet PC is capable to auto detect the USB devices installed, and if there is no detection of the devices, please manually enable the USB devices by going to **Start Menu / Control Panel / Add Hardware** to add the new device.

Note: Make sure that you have an external power adapter connected to your external optical storage device in addition to the USB cable.



Connecting the External Display Devices to Mini HDMI port

Mini HDMI (High Definition Multimedia Interface) is a new interface standard for PCs, displays and consumer electronics devices that supports standard, enhanced and high-definition video, plus multi-channel digital audio on a single cable.



Once the display is connected to the tablet PC, power on the tablet PC and the external display should respond by default. Alternately, you can change the display mode by configuring the settings in Display Properties of Windows operating system.

How to Update Tablet PC Firmware

You can update the firmware of your tablet PC through another notebook or desktop PC. Please check the latest firmware version of your tablet PC to make sure it is up-to date. To update the firmware can enhance the performance of your tablet PC, please see the following instruction for more updating instructions.

Before updated the firmware of your tablet PC, you need to:

- Backup your personal data on your tablet PC.
- Be sure the battery of your tablet PC is fully charged; plug the DC end of the adapter to the tablet PC, and the male end of the power cord to the electrical outlet.
- Turn off all useless running programs.
- USB cable is required (USB A male – USB A male cable)
- Turn on your notebook or desktop PC, be sure it is connected to the internet.

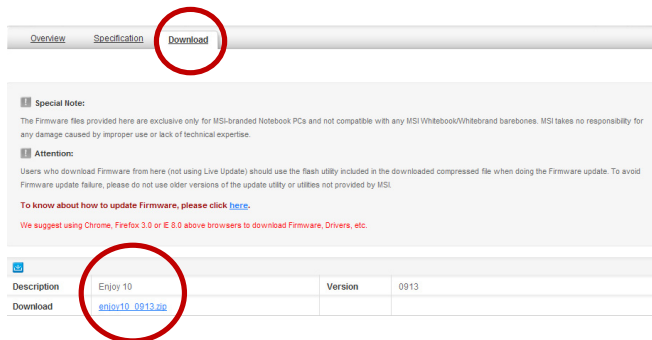
Step 1.

Please download the latest firmware of your tablet PC from the following website location

<http://www.msi.com>

Please be noted that if you cannot get the latest firmware from this website, please contact the local dealer for detailed information.

To take Enjoy 10" for example, please go to the above website location and select "Download" this item, then choose the following zip file to find the latest firmware.

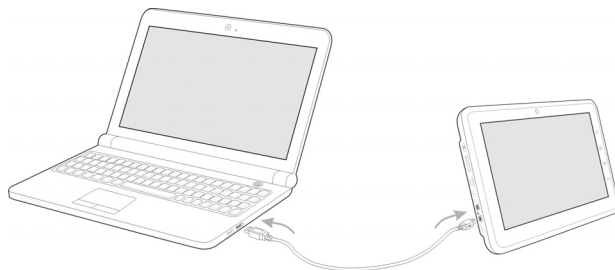


The screenshot shows the MSI website's product page for the 'Enjoy 10' tablet. The 'Download' tab is selected and circled in red. Below the tabs, there is a 'Special Note' and an 'Attention' section. The 'Attention' section states that users should use the flash utility included in the downloaded compressed file when doing the firmware update. A link is provided to know how to update the firmware. Below this, a table lists the firmware files available for download. The first row is highlighted, and the 'Download' link for the file 'enjoy10_0913.zip' is circled in red.

Overview	Specification	Download
<p>Special Note:</p> <p>The Firmware files provided here are exclusive only for MSI-branded Notebook PCs and not compatible with any MSI Whitebook/Whitebrand barebones. MSI takes no responsibility for any damage caused by improper use or lack of technical expertise.</p> <p>Attention:</p> <p>Users who download Firmware from here (not using Live Update) should use the flash utility included in the downloaded compressed file when doing the Firmware update. To avoid Firmware update failure, please do not use older versions of the update utility or utilities not provided by MSI.</p> <p>To know about how to update Firmware, please click here.</p> <p>We suggest using Chrome, Firefox 3.0 or E 8.0 above browsers to download Firmware, Drivers, etc.</p>		
Description	Enjoy 10	Version 0913
Download	enjoy10_0913.zip	

Step 2.

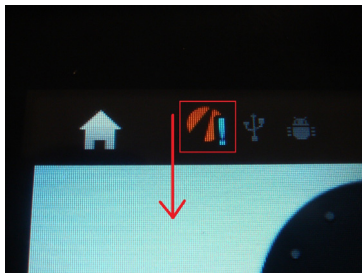
Connect USB to mini USB cable to your notebook (or desktop PC) and table PC.



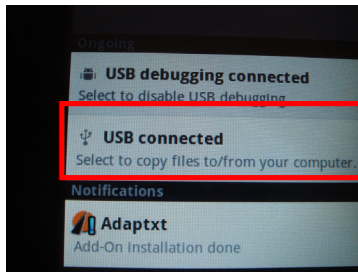
Please be noted that the USB connector may differ from the actual tablet PC you purchase.

Step 3.

Please open the message on the top left of the screen of your table PC.

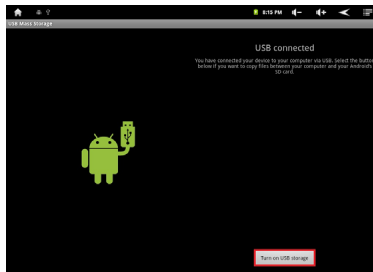
**Step 4.**

Please select "USB Connected".



Step 5.

Please select "Turn on USB storage".

**Step 6.**

On the notebook or your desktop PC, an auto-play dialog box with "MSI WINPAD" will pop up on the screen, please select "Open folder to view files".

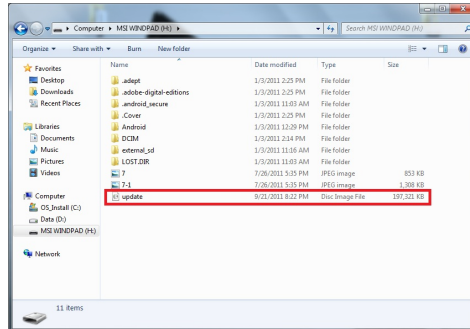


Step 7.

Please copy the new firmware to root directory on WINDPAD.

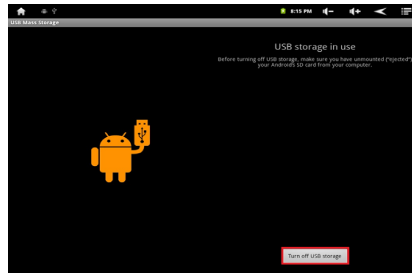
Note1: The filename must be "update.img", if not, please rename the image name to update.img.

Note2: Remember to put the firmware file to root directory.



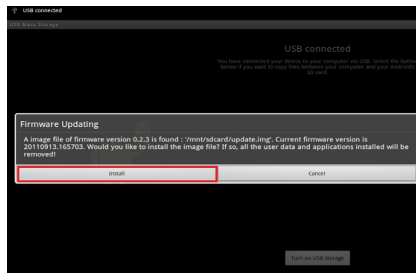
Step 8.

Please select "Turn off USB Storage".

**Step 9.**

Please select "Install".

You can select "Cancel" to update the firmware later on. Please follow the above instruction to turn on/off USB storage setting and back to this dialog box again.



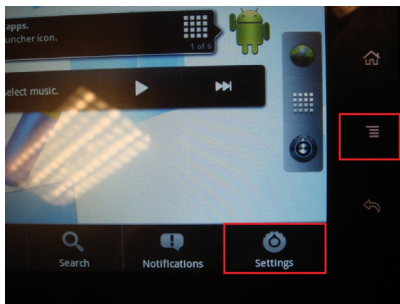
Step 10.

Please keep your USB cable connected. The system will auto reboot after updating the firmware.

Important: Do not touch the screen when the system is updating the firmware.

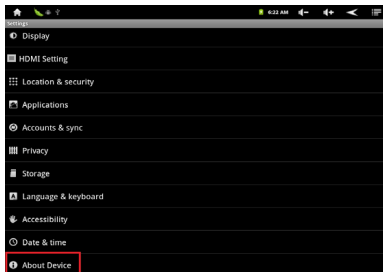
**Step 11.**

Please select "Menu" and then select "Settings", this step is to confirm the firmware version.



Step 12.

Please select "About Device"

**Step 13.**

Please confirm the "Build number" is the latest. The firmware update is completed.

