



MF 484 2.N

USER MANUAL



THANK YOU

Thank you for purchasing your Ashdown Engineering product and welcome to the family! We really think you've made the right choice and know that this amplifier will give you years of great tone and service.

It is a machine though and needs to be looked after, please read through this user manual which will help you get the most out of your new Ashdown and keep it running as long as some of our happiest and very famous customers.

DESIGNED FOR LIFE

"Designed For Life" means that this product is designed to have a service life in excess of 20 years, thereby reducing the environmental impact caused by waste electrical equipment.

It has been designed in accordance with current and upcoming legislation with regard to repair-ability and service.

For spares please email: info@ashdownmusic.co.uk

REGISTER ONLINE

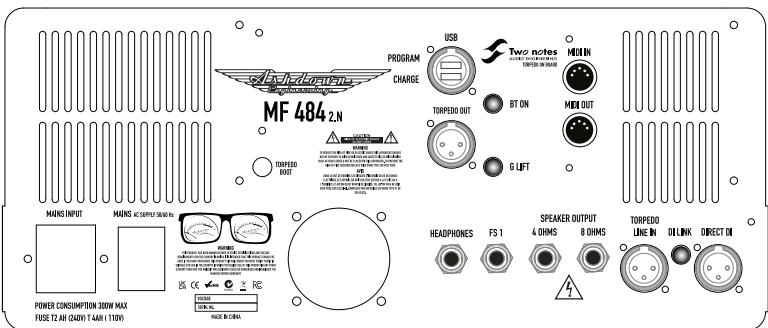
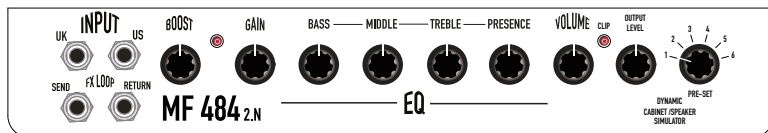
Please register this product online so we can make sure we give you years of customer support through our friendly in-house service centre.

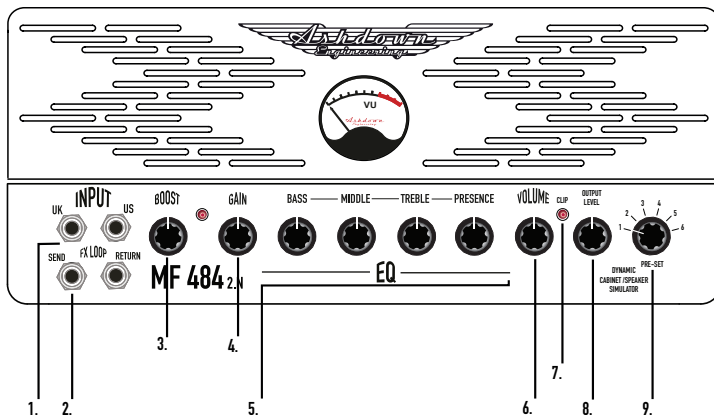
Here is where you need to visit to register your product:

<http://www.ashdownmusic.com/pages/register-your-product>

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THE VU METER

The VU meter provided on the front panel gives you a visual display of the output of the amp as its being played. This can be used to ensure clean headroom or to dial in something a little more aggressive....

1. INSTRUMENT INPUT

There are two instrument inputs, UK has a more compressed and tight classic British tone. The US input has great headroom producing a cleaner tone.

2. EFFECTS SEND/RETURN

A tube driven and recovered effects loop is provided, this is situated between the pre-amplifier and power amplifier, ahead of the master volume. The signal level is suitable for driving a wide range of effects pedals, the level present being entirely dependent on the level of pre-gain being used. Only effects should be used in this loop.

3. BOOST

An overdrive boost that can be turned on and off with the FS-1 Footswitch (sold separately), default setting is ON so you can turn up the overdrive volume without using a footswitch and dial in some growling overdriven tones.

4. GAIN

Use the gain setting to determine how clean or dirty your sound is regardless of the master volume setting.

5. 4 BAND EQ

This consists of Treble, Middle and Bass controls with a Presence, which operates as a high-frequency shelving boost.

6. VOLUME

The volume control adjusts the overall level of the amplifier. Adjust this for your preferred overall stage playing volume.

7. CLIP

This is to indicate when clipping occurs on the output signal of the Two notes DynIR output to maintain a clear representation of the DynIR.

8. OUTPUT LEVEL

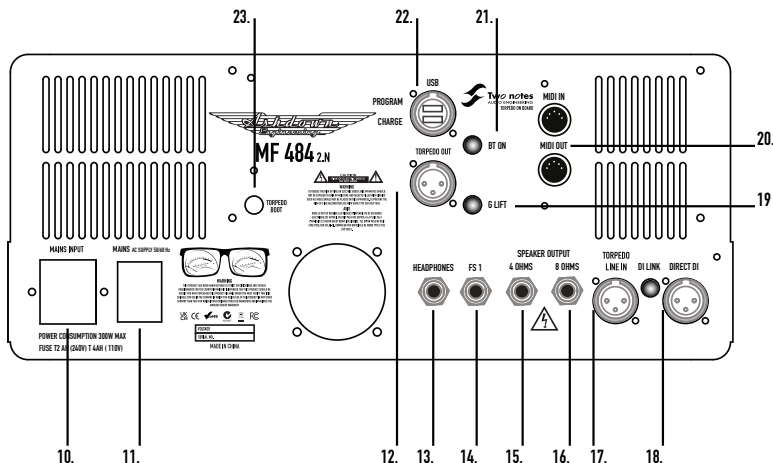
This is to set the output volume of the Two notes DynIR output DI on the rear of the amp.

9. PRE-SET

Select from 6 available on board official Ashdown Two notes DynIR impulse response cabinets designed by us for you. See table *T.1 for list.

10. MAINS INPUT

The amplifier is fitted with a standard IEC connector and supplied IEC lead correct for the country in which you reside. The Pre-set input VOLTAGE is shown on the rear panel together with fuse ratings.



11. MAINS

Power on and off with the switch provided once connected to the mains input.

12. TORPEDO OUT

This is a balanced XLR DI output derived from the DynIR output.

13. HEADPHONES

There is a 32 Ohm headphone out for use in silent practice.

14. FS-1 FOOTSWITCH INPUT

Input to connect an FS-1 footswitch (sold separately), use to turn boost on & off.

15/16. SPEAKER OUTPUTS

Two speaker output sockets are provided at an impedance of 8 or 4 ohms only ONE must be used at any one time, the socket being chosen to match the impedance of the cabinet combination in use at the time.

The on-board reactive load enables the amplifier to function without a load connected.

17. TORPEDO LINE IN & DI LINK

The TORPEDO LINE IN & DI LINK is an option that enables you the possibility of using the MF 484 2.N as a re-amping unit to run your pre recorded lines giving them some alternative tonal options with a number of alternative settings available via the embedded Two notes Torpedo.

The DI LINK push button links/unlinks the DIRECT DI and DynIR to isolate the signal.

**18. DIRECT DI**

This is transformer derived from the output and as such will have all the adjustments made with the tone controls, all effects in use and some influence from the speaker in use. The level obtained is dependent on playing volume. But as a general rule is suitable for line level (0,775V).

19. GROUND LIFT

A ground lift is fitted.

20. MIDI IN/OUT

Midi IN and OUT sockets are provided to enable control via a midi controller (available separately) over the available functions via the Two notes Torpedo. (See MIDI for more info).

21. BT ON

To ensure no possible Bluetooth interference leaks into the Audio we have added a BT ON/OFF button, this should be on when using the Two notes Remote app. Available on the App Store and Google Play. (SEE QR CODE P.19)

22. USB - PROGRAM/CHARGE

To either program the on-board Two notes Torpedo embedded firmware or with the handy option to keep your USB device charged...

23. TORPEDO BOOT

The Boot push button is a failsafe feature for in-field servicing. It ensures there is always a way to restart and reprogram a frozen unit. In particular, if an in-field update goes wrong, it allows the end user to restart the unit at home, without having to send the unit to a service center, which can save lots of time and money.

THE AMPLIFIER**POWER AMPLIFIER**

All Valve design featuring a fully floating paraphrase inverter, 4 x EL84 power tubes with individual self biasing, and Zero negative feedback for a self limiting open loop response and a good sensitivity to the speakers in use. Output power 30 watts continuous average into 4 or 8 ohms.

VALVE COMPLEMENT:

PRE - 1 x ECC81 - 1 X ECC82 - 2 x ECC83 **POWER** - 4 X EL84

MIDI

The MF 484 2.N handles both pre-set change commands (Program Change or PC) and parameter change commands (Control Change or CC). This way, you can interact with all the parameters on the unit from any kind of standard MIDI controller, like a MIDI pedalboard or a keyboard.

Select if the unit is to receive to Program Change and/or Control Change commands. For example, if you plan to use the pre-set switching (PC), the CC receive can be Off.

Set a MIDI channel for the unit to receive. You can choose to receive all channels, which is useful when you don't know exactly on which channel the commands are sent. With the MIDI monitor, check the correct reception of the commands by the Two notes Torpedo.

See section MIDI Mapping for the tables concerning Program Change and Command Change.

PROGRAM CHANGE (PC)

Each pre-set on the MF 484 2.N has a single program number. The pre-set 001 of the machine is triggered by a MIDI PC 1, you can address the 128 pre-sets, with MIDI PC 1 to MIDI PC 128. This way, it is possible to randomly access the pre-set by sending the appropriate MIDI PC number.

CONTROL CHANGE (CC)

The table on page 16-18 indicates the Control Change numbers for every parameter, as well as their range and behaviour.

THE TORPEDO TECHNOLOGY

To bring you realism and playing comfort, Two notes has developed a unique technology based on an adaptation of convolution techniques. Starting with the measurement of an actual cabinet and microphone setup, the embedded Two notes Torpedo can accurately reproduce the system as it was measured, as well as the microphone's position in space.

To take full advantage of these digital algorithms, the highest quality audio design assures a perfect analogue-to-digital conversion and a huge dynamic range to retain the ultimate playing experience.

This product has been thoroughly tested in professional studios and stage environments and is the alternative many musicians are looking for, to achieve a professional sound capture of their amplified instruments. The embedded Two notes Torpedo will give you the elusive sound of the greatest recording studios and producers, anytime, anywhere.

3RD PARTY IMPULSE RESPONSES

The MF 484 2.N is capable of delivering the best guitar tones by using the Torpedo technology, but you can also embed impulse responses that you have purchased or downloaded for free from 3rd-party developers, in .WAV or .AIFF formats. You can upload third-party IRs in the MF 484 2.N using the free Torpedo Remote software.

CREATE YOUR OWN IR'S

Download the free Two note Torpedo BlendIR software from the Two notes Audio Engineering website. With this software you will be able to capture your own cabinet + microphone setup and embed its sound signature into the MF 484 2.N.

TORPEDO REMOTE

Use the supplied USB cable to connect the MF 484 2.N to your computer. Connect the USB end to the MF 484 2.N PROGRAM SOCKET and the other end to your computer.

Download Torpedo Remote from the MF 484 2.N webpage. Choose the appropriate version in regards to your OS (Windows or macOS). Once Torpedo Remote is launched, you will be prompted to register the unit to your account or use it as a Guest (we advise registering the unit, for firmware updates, etc.).

When you are in Guest mode you cannot import cabinets from your personal Two notes license to the MF 484 2.N. You also cannot remove cabinets from the MF 484 2.N.

WIRELESS CONNECTION:

SETUP WITH YOUR PHONE/TABLET

You will connect to the MF 484 2.N from your mobile device via Bluetooth. The connection has to be done in the following order:

- Make sure BT is enabled on your amplifier
- Launch the Torpedo Wireless Remote app
- Accept all the requested authorizations (they depend on your tablet or phone)
- The connection window should show up, follow the on screen instructions.
- Input the pin code to pair the MF 484 2.N and your mobile device. The pin code is a six digit number starting with 000 and the last three digits are the last 3 numbers of your MF 484 2.N's serial number.

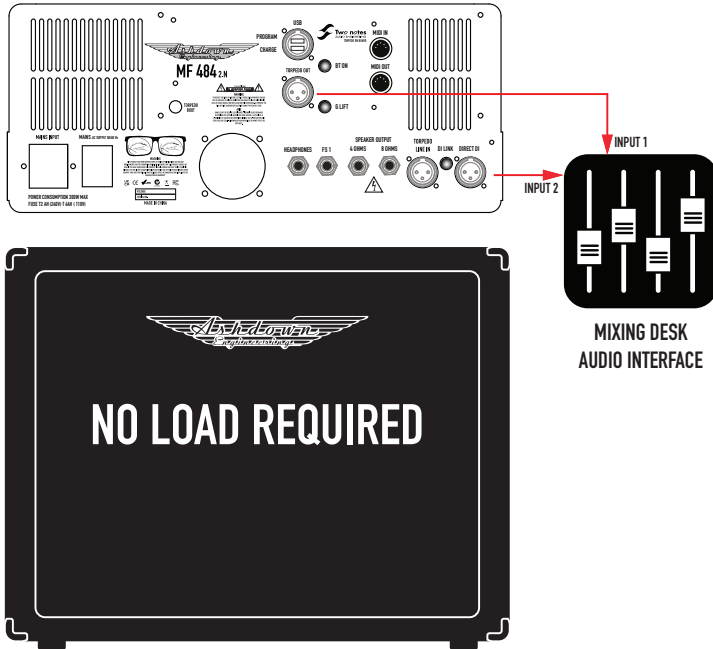
TROUBLESHOOTING:

If after inputting the pin code the MF 484 2.N does not show up in the "Devices" menu in Torpedo Wireless Remote, you will need to unpair the MF 484 2.N in the list of devices that are paired in the bluetooth menu of your phone/tablet. Once you have done this, please repeat the procedure detailed above. You cannot pair the MF 484 2.N from the phone or tablet OS, it has to be done by Torpedo Wireless Remote. Some phones need to have the Location (GPS) activated to allow for Bluetooth pairing. Try activating the Location if you find yourself unable to pair with just the Bluetooth activated on your phone or tablet.

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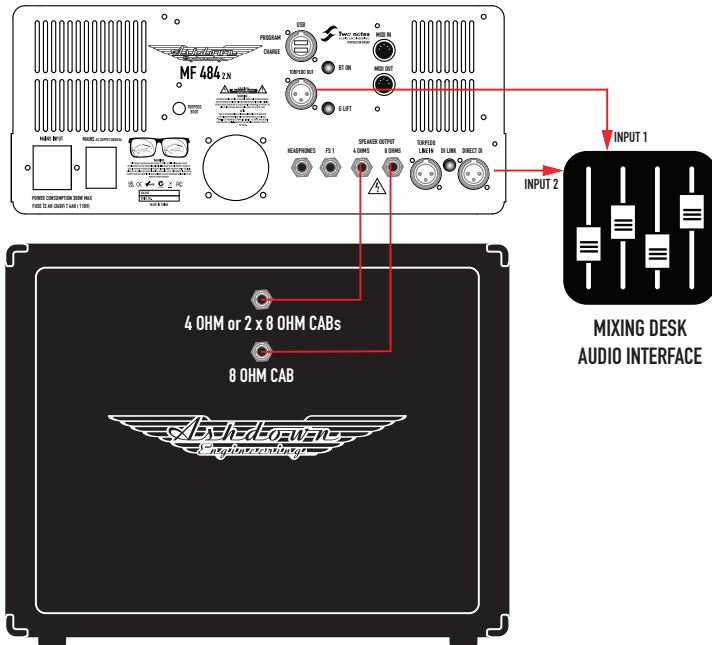
SILENT



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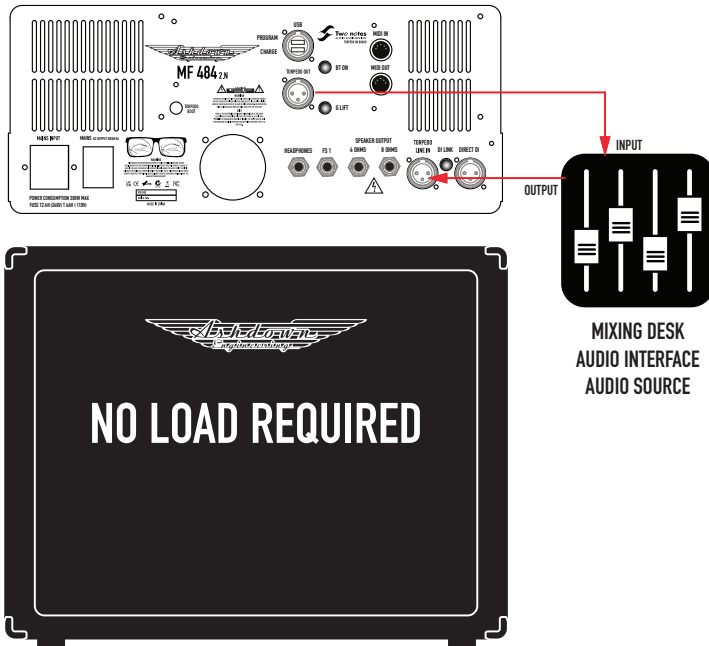
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RE-AMP



Param	CC	Range	Behaviour
Power Amp			
On/Off	0	0-1	0 = Off ; 1 = On
Model	1	0-7	0 = Model #0 ; 1 = Model #1...
Volume	2	0-30	0 = 0dB ; 30 = 30dB
Presence	3	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Depth	4	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Character	5	0-1	0 = Triode ; 1 = Pentode
Cab/Mic			
On/Off	6	0-1	0 = Off ; 1 = On
Unused	7	N.A.	N.A.
Cab	8	0-num files	0 = Cab #0 ; 1 = Cab #1...
File A	9	0-num files	0 = File #0 ; 1 = File #1...
File B	10	0-num files	0 = File #0 ; 1 = File #1...
Folder A	11	0-3	0 = User 0 ; 1 = User1 ; 2 = User 2 ; 3 = User 3
Folder B	12	0-3	0 = User 0 ; 1 = User1 ; 2 = User 2 ; 3 = User 3
Mic A	13	0-7	0 = Mic #0 ; 1 = Mic #1...
Distance A	14	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Center A	15	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Position A	16	0-1	0 = Back ; 1 = Front
Level A	35	0-107	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Phase A	36	0-1	0 = Normal ; 1 = Invert
Mute A	37	0-1	0 = Off ; 1 = On (Mute)
Mic B	38	0-7	0 = Mic #0 ; 1 = Mic #1...
Distance B	39	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Center B	40	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Position B	41	0-1	0 = Back ; 1 = Front
Level B	42	0-107	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Phase B	43	0-1	0 = Normal ; 1 = Invert
Mute B	44	0-1	0 = Off ; 1 = On (Mute)
Bypass A	51	0-1	0 = Off (Mic ON) ; 1 = On (Mic Bypass)
Bypass B	52	0-1	0 = Off (Mic ON) ; 1 = On (Mic Bypass)

EQ

On/Off	17	0-1	0 = Off ; 1 = On
Mode	18	0-2	0 = Guitar ; 1 = Bass ; 2 = Custom
Gain : Low	19	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain : Low Mid	20	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain : Mid	21	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain : High Mid	22	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain : High	23	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Freq : Low Cut	45	0-127	Specific mapping to Hz
Freq : Low	46	0-127	Specific mapping to Hz
Freq : Low Mid	47	0-127	Specific mapping to Hz
Freq : Mid	48	0-127	Specific mapping to Hz
Freq : High Mid	49	0-127	Specific mapping to Hz
Freq : High	50	0-127	Specific mapping to Hz

Level

Preset Level	24	0-95	0 = -95dB ; 95 = 0dB
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Reverb

On/Off	25	0-1	0:Off 1:On
Preset	26	0-7	0 = Room #0 ; 1 = Room #1...
Dry Wet	27	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Size	53	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Echo	54	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Color	55	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Type	56	0-1	0:Room 1:Ambience

Noise Gate

On/Off	57	0-1	0:Off 1:On
Mode	58	0-1	0:Soft 1:Hard
Threshold	59	0-80	0 = -80dB ; 80 = 0dB

Enhancer

On/Off	60	0-1	0:Off 1:On
Instrument	61	0-2	0 = Guitar ; 1 = Bass
Body	62	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Thickness	63	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Brilliance	64	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Dry Wet	65	0-127	0 = 0% ; 63 = 50% ; 127 = 100%

General – Preset

Mode	34	0-2	0 = Simulation ; 1 = Arcade ; 2 = IR Loader
General			
Out Level	66	0-107	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Mute	67	0-1	0 = Off ; 1 = On (Mute)
Bypass	68	0-1	0 = Bypass ; 1 = On
Preset	69	0-127	0 = Preset #1 ; 1 = Preset #2...

***T1: PRE-SETS** - MF 484 2.N Pre-Sets included are as follows.

1. - Celestion Blue Open 1x12 - Virtual Cabinet
2. - Celestion Blue Closed 1x12 - Virtual Cabinet
3. - Celestion Ruby Open 2x12 - Virtual Cabinet
4. - Celestion G12M Greenback Closed 1x12 - Virtual Cabinet
5. - Celestion Vintage 30 Open 1x12 - Virtual Cabinet
6. - Celestion Vintage 30 Closed 4 x12 - Virtual Cabinet

LINKS & MORE - Related to the Two notes Audio Engineering DynIR Virtual Cabinets.



SPECIFICATIONS:**Inputs**

High Input	Impedance - 3.9M ohms	Input range 150mv to 20v p - p
Low Input	Impedance - 10k ohms	Input range 300mv to 40v p - p
Effects Return	Impedance - 22k ohms	Input level 0dbu nominal
Line Input	Impedance - 22k ohms	Input range 300mV

Outputs

Effects Send	Impedance - 22k ohms	Level 0dbu nominal
D.I.Output	420 ohms balanced	pre ground lift Level -20dbu nominal
Speaker Outputs	Minimum Impedance - 4 ohms	
Frequency Response	-3db at 22hz and 25khz	
Headphone Output	3.5mm Jack output @ 32Ohms	

Equalisation

Bass	+/- 15db @ 100hz
Lo-Mid	+/- 15db @ 340hz
Hi-Mid	+/- 15db @ 660hz
Treble	+/- 15db @ 7khz shelving

Signal to Noise	Better than 80db (E.Q. Flat)
Distortion	Less than 0.5% Thd
Output Power	30watts into 4 ohms

WARNING!

This product has been manufactured according to specific specifications with regard to supply voltage requirements that are applicable to the country in which it is intended that this product be used.

If you have purchased this product via the internet or mail order you must verify that this product is intended to be used in the country in which you reside.

The use of this product in any other country other than that for which it is intended could be dangerous and invalidate the manufactures warranty.



Disposal of Old Electrical Equipment (Applicable in the European Union and other European countries with separate collection systems).



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the appropriate collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed info about recycling this product, please contact your local Council, your household waste disposal service or the shop where you purchased the product.

Notice for customer: the following information is only applicable to equipment sold in countries applying EU directives

Manufacturer: Ashdown Engineering Ltd. The Old Maltings, Hall Road, Heybridge, Essex, England, CM9 4NJ.

**FEDERAL COMMUNICATION COMMISSION 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 can radiate 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 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.

FFC CAUTION: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.



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