

IRFX3

Data-Stream Filtered © Infra-Red Receiver

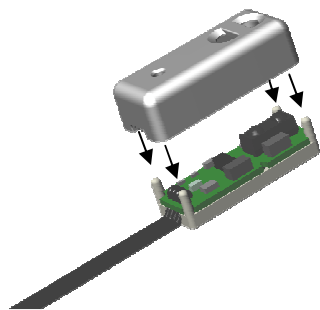
The IRFX3 is Plasma Proof & Sun Light Tolerant. It utilises leading edge technology to filter the received IR data packets: A microprocessor decides if the received packets are valid, Re-transmitting & modulating in real time.

FEATURES

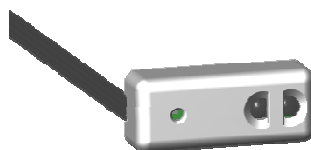
- Excellent IR receiver range: 8m ± 45° (Depends on ambient light levels and remote control strength).
- Narrow optical filter to reduce interference from Plasma TV and energy saving fluorescent lamp emissions.
- Receives / processes very short pulse burst codes systems as used by FOXTEL and SKY
- Wide input voltage range: 8 - 16VDC 50mA
- Amplifier ON indicator and IR reception "Flash back" indicator - both can be defeated.
- Programmable modulation frequency, Default: 38KHz ± 1%
- Enhanced EMI immunity with Data Stream Filtering – rejects IR disturbances that can slow down or cause intermittent problems on IR systems.
- Flat 4 core 28AWG 2m black lead.
- Supplied with 3 Shell colours: Black, White, & Silver.
- Rear or Side cable exit.
- Dimensions: Width 9.1mm (0.36")
Depth 22mm (0.87")
Height 6.1mm (0.24")
- Approvals: C-Tick CISPR22, FCC

INSTALLATION

The IRFX3 is suitable for surface mounting on Televisions, Plasma, LCD or LED TV or Displays, cabinets, appliances, or speaker grills. Select the Colour Shell that best suits the installation and push into position

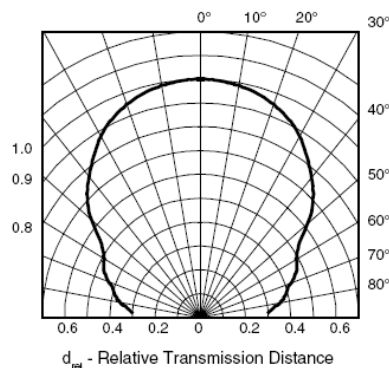


The Flat cable may be bent 90° to provide rear or side cable exit.



If mounting the IRFX3 behind a speaker grill a reduction in the receivers range is to be expected.

The receiver has excellent off axis reception, giving >50% range when 60° off axis.

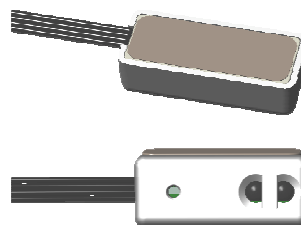


INSTALLATION

High Strength Acrylic sticky mounts are used to attach the IRFX3 by its rear or side surfaces. Ensure the mounting surfaces are clean and dry before positioning the IRFX3.

The Acrylic adhesive achieves 90% adhesion after 15 minutes and maximum adhesion after 72 hours. Bond strength can be improved with firm application pressure.

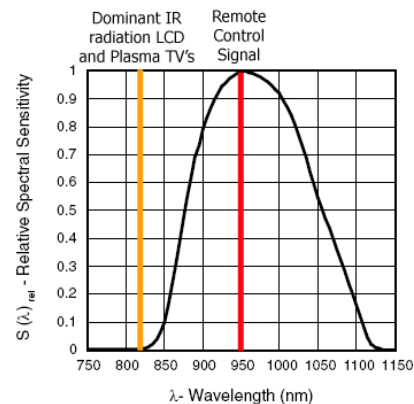
Use a new adhesive mount when changing or repositioning the IRFX3 receiver.



Some LCD TV's emit IR interference that can't be distinguished from typical remote control IR strings. The interference is usually worst with black or blue screens.

The IRFX3's narrow optical filter blocks radiation interference from these sources, and other problematic emitters like energy saving fluorescent lamps & low voltage tungsten halogen lighting.

If exposed to radiation from these sources a reduction in the receiver range is to be expected.



WIRING

- 1 (Grey) = Amp On
- 2 = Power supply +12VDC
- 3 = IR output
- 4 = Power supply 0V

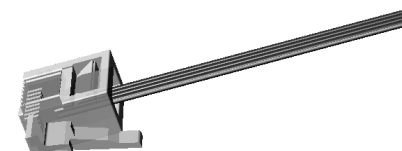
Use CAT-5E home runs for wiring between remotely located receivers and controlled equipment.

Use a pair for IR & 0V to minimize EMI:

Recommended RJ45 terminations are:

- Pin 1: Power supply +12V
- Pin 2: Power supply 0V
- Pin 3: IR
- Pin 4: AMPON
- Pin 5: nc
- Pin 6: Power supply 0V
- Pin 7 : nc
- Pin 8: nc

The IRFX3 cable is 1.0mm pitch and may be terminated directly into an RJ45 or RJ11 connector.



Electrical plates with RJ45 or RJ11 'MECS' are commonly available.

Multiple IRFX3 receivers may be connected in parallel.

If "AMPON" indications are required the IRFX3 Amp ON should be connected to a switched 12V Amp On source.

