

HPM brings harmony to your home





What is harmony[™]?

Introducing harmony[™] by HPM, an intelligent home network system that conveniently integrates home technologies through a simple-touse central hub.

With harmony[™] you can network your computer systems, Pay TV, audio, DVD, video, telephone and security throughout your home, back to one location for easy access and management.

Access Pay TV, watch a DVD or see who is at the front door from any television in your home. Listen to music while tinkering in the garage or entertaining on the deck.

No longer restricted by the position of your equipment, harmony[™] allows you to access your home technologies in numerous locations.

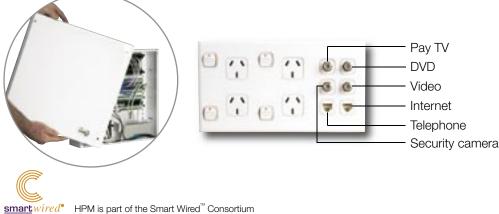
When is the best time to install harmony[™]?

The best time to install harmony[™] is when you are building your home. When designing your home speak with your harmony[™] supplier to help you plan a system best suited to your needs. You can begin with a basic package and add additional services. Unlike other systems, harmony[™] is a complete package, including wall plates and installation accessories.

harmony[™] must be installed by a qualified structured wiring specialist or a qualified electrician.

What does harmony[™] look like?

Once installed, harmony[™] is hidden, except for the discreet central hub and stylish Excel wall plates.



HPM is part of the Smart Wired[™] Consortium

Note: The systems outlined in the following pages are examples only. Larger systems are possible. Combinations of harmony[™] products and output possibilities vary according to homeowner requirements.



What can harmony[™] do?

Security

Front door - See who is at the front door from any television in your home.

2 Multiple access

Ensuite - Listen to the news from your main TV and stereo system, via speakers in your bathroom when getting ready for work.

3 Audio entertainment

Garage - Listen to the game in stereo quality sound while doing odd jobs around your home. Control the volume with wall-mounted volume controllers.

4 Outdoor entertainment

Back deck - Enjoy listening to music while entertaining inside or out. You can use your existing remote controls to control your play list.

5 Internet access

Spare room - Download information from the internet from any room and print it on the main printer in the office. By networking your computers you will enjoy a larger working space to keep and share files.

6 Convenience

Bedroom - Watch a DVD from bed, even though the DVD player is in the lounge room.

Office

Office - Quickly change a phone point into a fax line, printer port, or infrared port for a remote control receiver.

3 Child monitor

Child's bedroom - Keep an eye on your children with the harmony[™] security system cameras, (ideal for swimming pool areas).

9 Audiovisual home theatre

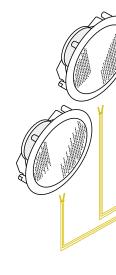
Lounge room - Watch Pay TV, DVD, or video simultaneously on multiple TVs, with maximum quality reception. Harmony[™] connects all TVs to the main aerial and is compatible with Digital TV.

Foktol Recognised

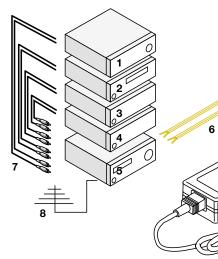
Audio

All audiovisual equipment is connected to the main amplifier, or tuner, and in turn connected to the harmony[™] audio distribution system, via the stereo's auxillary output. This means you can listen to the radio, DVD, CD, video, Pay TV and free-to-air TV in additional locations away from the equipment's physical location. Output volume can be controlled in every location with wall-mounted volume controllers.

It is possible to have a larger system incorporating more facilities. For more information please contact your harmony[™] supplier.



* Shielded audio cables recommended for audio inputs with long cable runs and noisy environments.



harmony [™] audio component options		
l'and	Audio module Takes input from audio source and distributes to multiple speaker outlets Cat. SWAM04	
6	Volume control Cat. SWVC02	
	Ceiling mount stereo speaker (pair)	

Ceiling mount stereo speaker (pair) 30W RMS 8 Ω Circular 230mm diameter Cat. SWSPK01



Ceiling mount mono speaker (single) 30W RMS 8 Ω Circular 230mm diameter Cat. SWSPK02



Wall mount / ceiling mount stereo speaker (pair) 35W RMS 8 Ω Rectangular 304mmx223mm Cat. SWSPK03



Outdoor speaker (pair) 30W RMS 8 Ω Bracket mounted in black or white Cat. SWSPK04

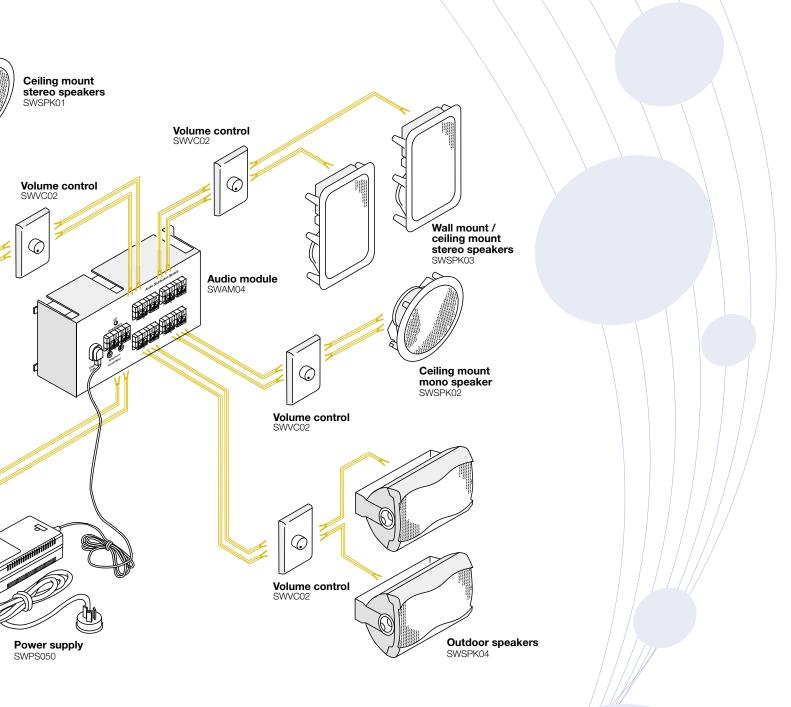
Additional products required:

Figure 8 cable (min 0.7mm2 / 19 AWG), wall plates and connectors (please refer to HPM Trade Price List for the complete range of wall plates and connectors), RCA leads, banana plugs.

Key

- 1 DVD player
- 2 VHS player
- 3 Pay TV
- 4 Digital set top box
- 5 Audio amplifier with audio line level output & multiple audio inputs
- 6 Shielded audio cable*
 - RCA connectors
- 8 Antenna

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 $\ensuremath{^*\!Wiring}$ is not limited to the sample shown, a typical representation only.

TV and security

DVD, VCR, security camera, Pay TV, and free to air TV signals can be distributed to up to six televisions via the harmony[™] Video combiner & splitter, and up to 8 televisions via the harmony[™] Advanced video combiner & splitter.

A video recorder connected to either system can record material from free-to-air TV, Pay TV, DVD, or security cameras.

harmony[™] TV and security component options



Advanced video combiner and splitter (4 inputs, 8 outputs) Combines and splits video signals into TV outputs Cat. SWAVCS01



Video amplifier Amplifies video signals Cat. SWVA01



Indoor / outdoor security camera Ceiling mounted black and white camera Cat. SWSC02



Single channel modulator Converts AV signal to RF signal Cat. SWMD01



Power supply 500mA 12VDC Provides 12VDC power to various harmony[™] components Cat. SWPS005



Power supply inline 3A 12VDC Provides 12VDC power to various harmony[™] components Cat. SWPS030



Power supply inline 5A 12VDC Provides 12VDC power to various harmony[™] components Cat. SWPS050

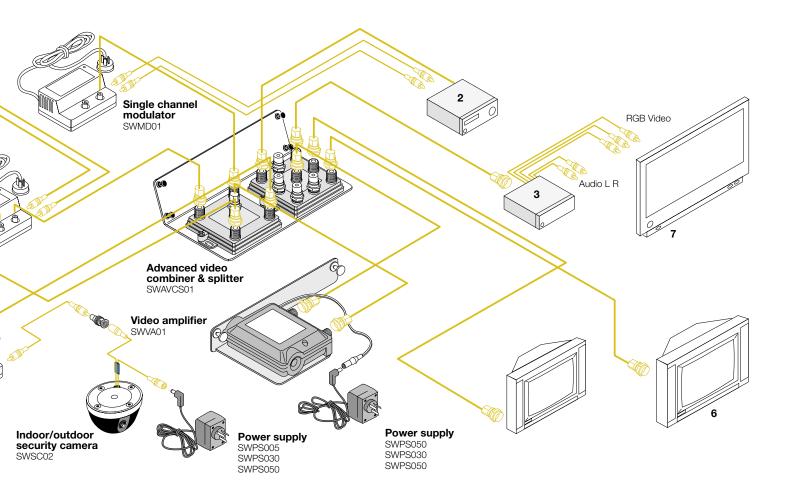
Additional products required:

RG6 quadshield cable, wall plates and connectors (please refer to HPM Trade Price List for the complete range of wall plates and connectors), F to PAL connector converter, RCA leads, RCA dual socket connector.

Single channel modulator SWMD01 5 Satellite or cable or cable Single channel modulator SWMD01

Key

- 1 DVD player
- 2 VHS player
- 3 Digital set top box
- 4 Pay TV
- 5 Antenna
- 6 Conventional (CRT) television
- 7 Plasma screen television



 $\ensuremath{^*\!\text{Wiring}}$ is not limited to the sample shown, a typical representation only.

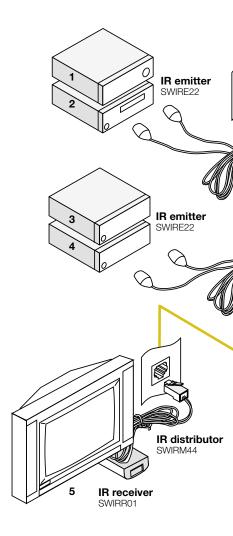


IR Control

You can have remote control to all of your audiovisual equipment in any room you choose with the harmony[™] infrared (IR) distribution system. Locate the harmony[™] IR emitter with your audio visual equipment, and the harmony[™] IR receivers in the locations where you want remote control. Connect both to the harmony[™] IR distributor.

The example illustrates an additional three locations where remote control of audiovisual equipment is possible. (Two where audio services can be accessed, including audio from Pay TV, freeto-air TV, DVD, and VCR and one where both audio and visual services can be accessed.)

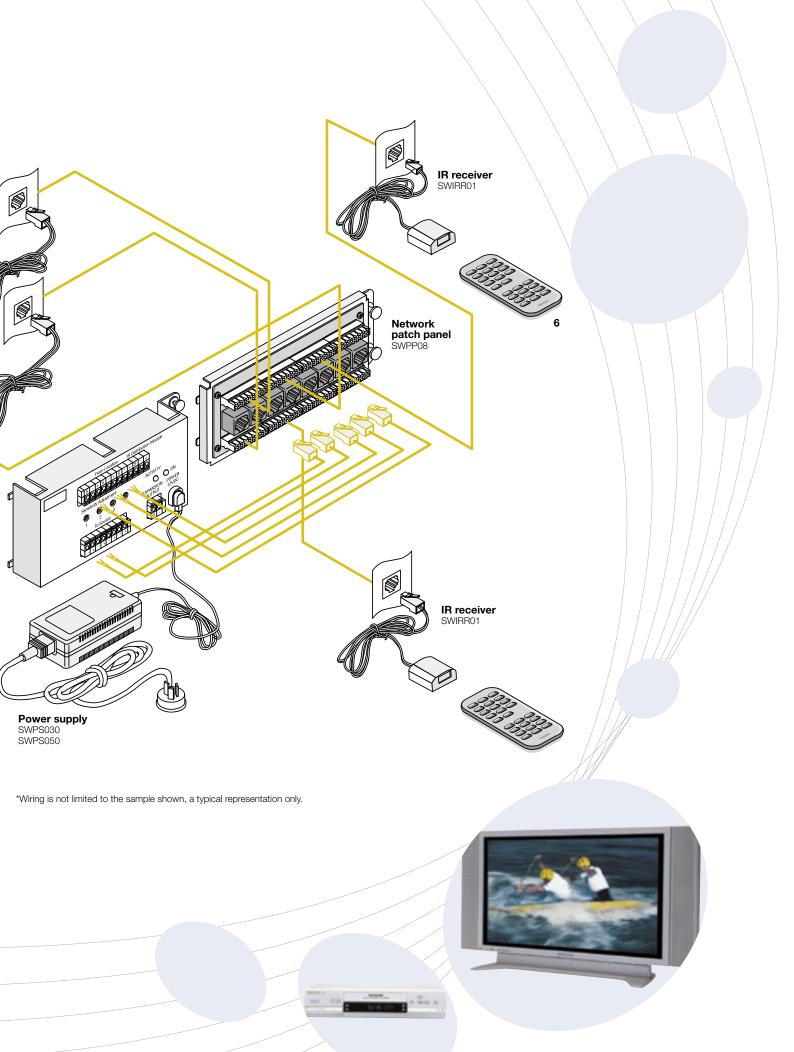
harmony[™] IR Control component options



		IR distributor Receives IR signals from IR receivers and distributes to IR emitters Cat. SWIRM44
1	Q	IR receiver Receives signals from remote controllers and sends them to the emitter Cat. SWIRR01
	$\langle \rangle$	IR emitter Emits IR signals that control electronic appliances Cat. SWIRE22
	e	Power supply inline 3A 12VDC Provides 12VDC power to various harmony [™] components Cat. SWPS030
	80°.	Power supply inline 5A 12VDC Provides 12VDC power to various harmony [™] components Cat. SWPS050
Additional products required:		

Key1Tuner / amplifier2DVD player3VHS player4Pay TV5Television6Remote control

Cat5E or better cable, wall plates and connectors (please refer to HPM Trade Price List for the complete range of wall plates and connectors).



Data, Phone and Fax

With a harmony[™] Network patch panel and Network data hub, you can network your computer equipment just like you might find in an office environment. The computers can share data and peripherals such as printers, and modems.

The harmony[™] Advanced telephone distributor can be used to distribute up to 4 telephone lines to a maximum of 6 handsets. You can distribute a single line to multiple handsets, or multiple lines to handsets as desired. It is possible to have more than 4 inputs and 6 outputs with the purchase of additional modules.

Fax machines can operate on their own line, or they can be connected to telephone lines as illustrated in the diagram. The harmony[™] system includes a line-grabbing facility for security systems.

harmony[™] data, phone and fax component options



Advanced telephone distributor

Accepts up to 4 incoming telephone lines and distributes each line to up to 6 locations Cat. SWATD01



Network data hub

Connects computers, printers and other computer peripherals Cat. SWDH05



Network patch panel

Allows easy re-configuration of phone, fax, IR and data points to suit changing needs Cat. SWPP08



Cat5E patch lead pack

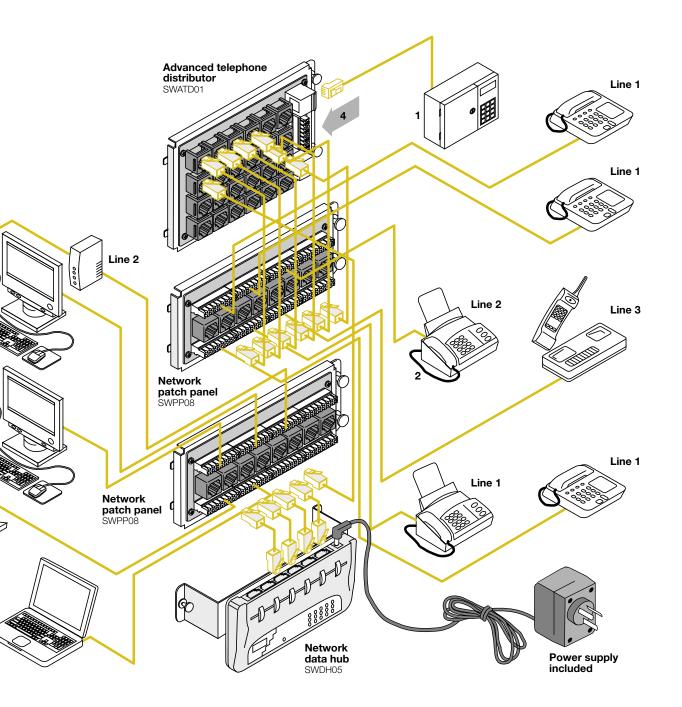
Cat5E 300mm long patch leads (pack of 4) Cat. SWLD003

Additional products required:

Cat5E or better cable, telephone cables, wall plates and connectors (please refer to the HPM Trade Price List for a complete list of wall plates and connectors).

Key

- 1 Security system
- 2 Fax
- 3 Printer with network card
- 4 External lines (phone, fax and internet incoming lines)
- 5 Data modem



*Wiring is not limited to the sample shown, a typical representation only.



Design your own system

You can start with one of the following packages and add any additional modules you would like. Or design your own system entirely by selecting all the modules relevant to your needs.



Start up communication package

- Essential phone distributor
- Video amplifier
- Video combiner & splitter
- Small enclosure (surface mount)

Combines 2 video signals (eg. DVD and TV, or VCR and TV).

Distributes these signals to up to 6 locations.

Accepts 4 incoming telephone lines (i.e. 4 different telephone numbers).

Each telephone line can be distributed to 6 rooms, giving you a phone, fax or internet connection in 6 rooms.



Entertainment package

- Advanced phone distributor
- Video amplifier
- Advanced video combiner & splitter
- Network patch panel (optional upgrades)
- Medium enclosure (surface or flush mount)

Combines 4 video signals (eg. DVD, TV, VCR and Pay TV).

Distributes these signals to up to 8 locations.

Accepts 4 incoming telephone lines (i.e. 4 different telephone numbers).

Each telephone line can be distributed to 6 rooms, giving you a phone, fax or internet connection in 6 rooms.

Includes 1 patch panel enabling easy configuration for the user of telephone, fax, and internet connections (and also the IR system if this module is purchased).

Patching between IR and Data is also possible with the addition of an IR engine or Data hub.



Total control package

- Advanced phone distributor
- Video amplifier
- Advanced video combiner & splitter
- Two Network patch panels (optional upgrades)
- Large enclosure (surface or flush mount)

Combines 4 video signals (eg. DVD, TV, VCR and Pay TV).

Distributes these signals to up to 8 locations.

Accepts 4 incoming telephone lines (i.e. 4 different telephone numbers).

Each telephone line can be distributed to 6 rooms, giving you a phone, fax or internet connection in 6 rooms.

Includes 2 patch panels enabling easy configuration for the user of telephone, fax, and internet connections. (Patching between IR and Data is also possible with the addition of an IR engine or Data hub).

Large sized surface or flush mount enclosure enabling future expansion of the system.





Full component listing

Cat Number	Description
Packaged kits	
SWMK01	Start up communication package
SWMK02	Entertainment package
SWMK03	Total control package
Power supplies and le	eads
SWPS005	Power supply 500mA 12VDC
SWPS030	Power supply inline 3A 12VDC
SWPS050	Power supply inline 5A 12VDC
SWPL02	Power split lead 2 way
SWLD003	Cat5E Patch lead pack (Qty 4)
SWLT003	Telephone lead pack (Qty 4)
Upgrade modules	
SWPP08	Network patch panel, 8 port
SWDH05	Network data hub, 5 port, 10/100 Mbps, 1 uplink port for expansion
SWAM04	Audio distributor, 1 input, up to 4 outputs, 40W output (5W per channel)
SWIRE22	Infrared (IR) emitter, connects with RJ45 plug
SWIRM44	Infrared (IR) distributor, supports up to 4 x IR control sets
SWIRR01	Infrared (IR) receiver, connects with RJ45 plug
Debundled packages	(Standard modules and enclosures)
SWME01	Metal enclosure only / small
SWME02	Metal enslosure only / medium
SWME03	Metal enclosure only / large
SWETD01	Essential telephone distributor, 4 line input, up to 6 telephone line outlets per input line, with IDC connectors
SWATD01	Advanced telephone distributor, 4 line input, up to 6 telephone line outlets per input line, with RJ45 connectors
SWVCS01	Video combiner & splitter, 2 x RF inputs, 6 x RF outputs
SWAVCS01	Advanced video combiner & splitter, 4 x RF inputs, 8 x RF outputs
SWVA01	Video amplifier, max gain VHF 20-26dB, UHF 34 dB
Speaker range	
SWSPK01	Ceiling mount stereo speaker, 30W RMS, 8 Ω , frequency response 60Hz - 20kHz - white
SWSPK02	Sum adding mono speaker, 30W RMS, 8 Ω , frequency response 60Hz - 20kHz - white
SWSPK03	Wall / ceiling mount stereo speaker, 35W RMS, 8 Ω , frequency response 50Hz - 20kHz - white
SWSPK04	Outdoor speaker, 30W RMS, 8 Ω , frequency response 82Hz - 20kHz - white
SWSPK04BL	Outdoor speaker, 30W RMS, 8 Ω , frequency response 82Hz - 20kHz - black
SWVC02	Volume controller 60W RMS - white
SWVC02BL	Volume controller 60W RMS - black
SWMD01	Single channel modulator, channels 21 to 69, RF output 470 to 860 MHz adjustable
SWST04	Speaker terminal 4 way, dual stereo
SWCBL01	Shielded audio cable - 100m roll

Security cameras	3
SWSC01	Indoor security camera, light level sensitive to 0.5 lux, output resolution 420 lines
SWSC02	Indoor / outdoor security camera, light level sensitive to 0.3 lux, output resolution 420 lines
Combination Exc	el plates
XLV048/2W	Excel combination plate
XL222PA/2T	Excel combination plate
XL222/2T	Excel combination plate
XLV222/2W	Excel combination plate
XL422PA/3T	Excel combination plate
XLV6/3W	Excel combination plate
XLV424/3W	Excel combination plate
Installation acces	ssories
712S2	Cavity wall Gyprock bracket segregated 2 gang
712S3	Cavity wall Gyprock bracket segregated 3 gang
953S2	Render bracket segregated 2 gang
953S3	Render bracket segregated 3 gang
425S2	Wall box segregated 2 gang
425S3	Wall box segregated 3 gang
143S2	Stud bracket segregated 2 gang
143S3	Stud bracket segregated 3 gang
Somo of the wall	plates and connectors available from HPM are listed below. The page number they appear in the
	List is listed in brackets. For a complete listing please see the HPM Trade Price List.
XL770F	Excel plate F connector for cable (page 10-4)
700F	Standard plate F connector (page 10-4)
RJ8A5E/1	Termination tool (page 10-1)
RJT1	RJ45 socket, 8P8C Cat5E (page 10-1)
XL770/1RJ2	8 contact socket RJ8A5 (page 10-2)
1313A/FF3	Signal attenuator, reduces the signal strength by 3dB (page 10-6)
1313A/FF6	Signal attenuator, reduces the signal strength by 6dB (page 10-6)
1313A/FF10	Signal attenuator reduces the signal strength by 10dB (page 10-6)
1313A/FF12	Signal attenuator, reduces the signal strength by 12dB (page 10-6)
1313A/MF3	Signal attenuator, reduces the signal strength by 3dB (page 10-6)
1313A/MF6	Signal attenuator, reduces the signal strength by 6dB (page 10-6)
1313A/MF10	Signal attenuator, reduces the signal strength by 10dB (page 10-6)
1313A/MF12	Signal attenuator, reduces the signal strength by 12dB (page 10-6)
1310FS	F connector female to PAL socket in 800 insert (page 10-7)
1313T	Line terminator, used for terminating end points on RF systems (page 10-7)
D1214/1	1M TV / video fly lead (page 10-7)
D1209/1.5	1.5M antenna lead, 75 Ω (page 10-7)
D1209/2.5	2.5M antenna lead, 75 Ω (page 10-7)
R1209/5	5M antenna lead, 75 Ω (page 10-7)
	10M antenna lead, 75 Ω (page 10-7)
R1209/10	
R1209/10 800RCAB/G	RCA jack, black with adaptor
R1209/10 800RCAB/G 800RCAR/G	RCA jack, black with adaptor RCA jack, red with adaptor



HPM brings harmony to your home

The harmony[™] home network system is designed and engineered in Australia to the highest standards by HPM. harmony[™] was developed to ensure you are always ready to 'plug-in' to new technologies.

HPM is a 100% Australian owned company, a market leader in the electrical industry providing innovative solutions for residential, commercial and industrial projects. With over 9,000 products, ranging from switches and powerpoints to sophisticated home and building automation systems, HPM can plug you into the latest technologies to ensure your life is easier, safer and more enjoyable.

When you choose HPM products, you are backed by over 80 years experience from one of Australasia's largest manufacturers and suppliers in the electrical industry.

HPM is a quality endorsed company with ISO 9002 accreditation from Standards Australia and laboratories approved by NATA.



