PREMTECO
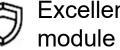## INNOVATIVE VISUAL TECHNOLOGIES

IR Ultra Series

Indoor Rental LED Display- P1.9, P2.6, P2.9
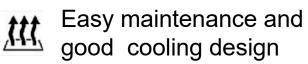
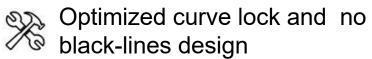Excellent and safe module design

XR technology

Easy maintenance and good cooling design

7680 refresh rate

Optimized curve lock and no black-lines design

Stunning vision

Excellent and Safe Module Design

To meet different needs of live events projects, our IR Ultra series uses front and rear module maintenance design. Armed with N52 type strong magnets on the LED modules, the LED panel will be more secured.

The pixel pitch P1.9, P2.6, and P2.9 are available.

Easy maintenance and good cooling design

Beside the magnetic module design, all components like receiving cards, hub board, power supply, and other accessories are in a detachable box which can be swapped out in few seconds. This greatly reduces the "downtime" during the event.

What's more, heat sink strips are on the backside of the control box, which helps to cool the power supply quicker.

Optimized curve lock and no black-lines design

The curve locks use rotating design and support the curve from -15 degree to 15 degree. The lock fastens the cabinet more firmly and rapidly.

There are soft strips on the left and right side of the panel. They block the light from the back of the screen, so the screen won't appear black lines caused by the gaps between the panels.

XR technology

Our IR Max series have been specifically developed for used in film & TV industries as well as extended reality applications. Premteco's intelligent electronnic design capabilities performed acritical role in the XR's high-performance abilities, creating a display that is meticulously close to real-life imagery.

7680 refresh rate

The high refresh rate ensures the smoothness of every frame of the images, thus the LED display won't appear flicking on the highspeed camera.

1920Hz   7680Hz

low frame frequency

high frame frequency

12 bits

16 bits

Stunning vision

The IR Ultra is able to perform a refresh rate of 7680Hz, a max frame frequency of 236Hz and a max grayscale of 16 bits. With these characteristics, our IR Ultra can easily be synchronized with most of brands of high-quality broadcast cameras, no even one frame delay.

Application Fields

To fit every different scenes, indoor full color is made up of superior quality materials with the concise and strong cabinet. This product is usually used in:

- **Program;**
- **Show;**
- **Film Studio.**

IR Ultra(XR) Parameters

Item	P1.9	P2.6	P2.9
Pixel Pitch	1.953mm	2.604mm	2.976mm
LED Type	SMD 1212	SMD1515	SMD1515
Module Resolution	128dots × 128dots	96dots × 96dots	84dots × 84dots
Driving Mode	1/16scan	1/16scan	1/14scan
Module Pixels	16,384dots	9,216dots	7,056dots
Module Size	250mm × 250mm	250mm × 250mm	250mm × 250mm
Cabinet Size	500mm × 500mm	500mm × 500mm	500mm × 500mm
Cabinet Resolution	256dots × 256dots	192dots × 192dots	168dots × 168dots
Pixel Density	262,144dots/㎡	147,456dots/㎡	112,896dots/㎡
Minimum Viewing Distance	≥1.9m	≥2.6 m	≥2.9 m
Brightness	1000nits～1,200nits	1000nits～1,200nits	1000nits～1,200nits
IP Grade	IP40	IP40	IP40
Refresh Rate	≥7680Hz	≥7680Hz	≥7680Hz
Gray Scale	≥16bits	≥16bits	≥16bits
Viewing Angle	H:140° / V:140°	H:140° / V:140°	H:140° / V:140°
Maximum Power Consumption	650W/㎡	650W/㎡	650W/㎡
Average Power Consumption	200W/㎡	200W/㎡	200W/㎡
Input Voltage	AC110V～AC220V @ 50Hz / 60Hz	AC110V～AC220V @ 50Hz / 60Hz	AC110V～AC220V @ 50Hz / 60Hz
Operating Temperature	−20℃～60℃	−20℃～60℃	−20℃～60℃
Operating Humidity	10%～90%	10%～90%	10%～90%
Cabinet Material	Die-casting Magnalium	Die-casting Magnalium	Die-casting Magnalium
Cabinet Weight	8.5kg/panel	8.5kg/panel	8.5kg/panel
Operating System	Windows (Win7, Win8, etc.)	Windows (Win7, Win8, etc.)	Windows (Win7, Win8, etc.)
Signal Source Compatibility	DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc.	DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc.	DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc.