

PBOX100 Specification

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1 Function



PBOX100 is Nova Asynchronous Controller, designed for industrial use, can be used in all kinds of application environments. It has the following characteristics:

- 1) Remote play-program publishing;
- 2) Remote Monitoring;
- 3) Remote power supply control;
- 4) Play as per time segment or according to date, week and time;
- 5) Display window auto-adapting;
- 6) Multiple LED screens displaying synchronization;
- 7) Support a variety of media formats, such as video, images, text,

- weather, clock, countdown, Word, Excel, Txt etc;
- 8) Support emergency insert play and immediate notification ;
 - 9) Remote playback log managing;
 - 10) USB disc import and Plug-and-Play;
 - 11) Support remote upgrade of application software and firmware program;
 - 12) Flexible driving capacity : 512x1024, 800x600, 1024x512, 1536x384, 2048x256 ;
 - 13) Full-scale drive IC support : TI, Toshiba, MBI, Siti, Sumacro, Mingyang, etc. Support DM13H, MBI5024/5036/5034, MBI5042/5041/5030, MBI5040, MBI5050, etc;
 - 14) Support full-color LED screens, static to 1/32 scan, real pixel/virtual pixel;
 - 15) Field frequency as 60Hz;
 - 16) The gray level is configurable, and support 16 bit 65536 level gray scale maximum;
 - 17) Refresh frequency : scanning screen can achieve 3840Hz and static screen can achieve 6000Hz;
 - 18) Support brightness calibration and color calibration;
 - 19) Support led open/short circuit detection of MBI5036, MBI5034, MBI5039, DM13H;

- 20) On-board temperature and voltage detection;
- 21) Support (with light sensor NS048C) automatic brightness adjustment ;
- 22) Support multi-function card MFN300.

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2 Dimensions and positioning

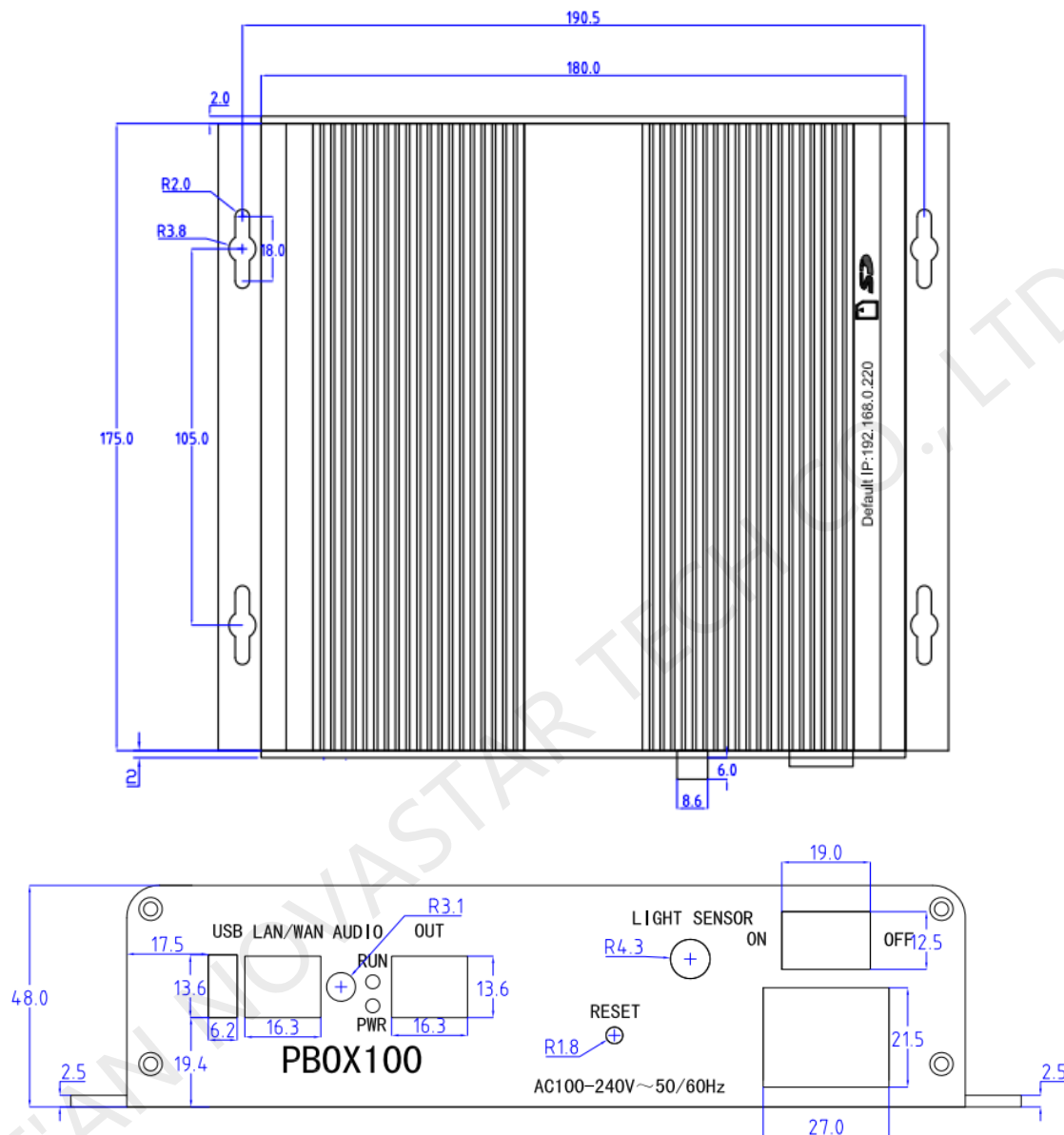


Fig 1 BOX100 dimension and interface diagram

【LIGHT SENSOR】: Light sensor interface for LED display brightness adjustment according to environment;

【USB】: Connect to common USB disks available in the market;

【SD】 : Insert SD card;

【Audio】 : Audio input interface;

【LAN/WAN】 : Megabyte Ethernet port , Connect to internet ;

【OUT】 : Gigabyte Ethernet port , Cascading to M3 receiving card (scan board) (MRV300/MRV320), or multi-function card (MFN300) ;

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3 Working conditions

Working voltage (V)	Max	5.5	Min	4.5
Working current (A)	Max	2A	Min	0.45A
Operation temperature (°C)	Max	60.0	Min	-30.0
Storage temperature(°C)	Max	80.0	Min	-40