



USER'S MANUAL

Industrial LCD Monitor

Model: GBS-8229

GONBES Technology Co.,Ltd

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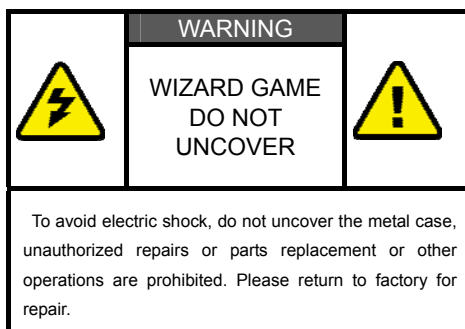
1. Important Info

Before start this product, please read the User's Manual carefully, it contains all product-related warnings and important issues.

Do not try the followings:

- unauthorized repairs or parts replacement or other operations
- inappropriate placement including but not limited to lightning, fire, exposure to rain, water, or gas
- switch to the power not in the voltage allowable range
- remove the modified label or the warranty label

Cautions:



2. Introduction

Gonbes Technology Co., Ltd (Gonbes) is the leading manufacturer of video converters such as game converters and CNC monitor converters. According to the professional experience in the replacing & repairing industrial equipment and the important feedback from customers on the old converter GBS-8218, we launched an innovative industrial video converter GBS-8219 after years of developing and testing.

GBS-8219 achieves full automatic conversion from industrial video signal MDA / CGA / EGA / RGB...to standard VGA. It also brings tangible benefit and convenience to our customers in terms of repairing & replacing industrial monitor. In order to provide more convenient operation, here we are glad to introduce our new launched GBS-8219 & Industrial monitor all-in-one model **GBS-8229**.

3. Feature specifications

Input	Signals	MDA、CGA、EGA、RGB、RGB Sog、RGSB、RGBHV、YPbPr
	Interface	9pin、3pin、6pin、14pin、20pin、25pin
	Horizontal Frequency Rate(H)	12kHz to 40kHz automatically recognized
Output	Supports	15pin VGA、Resolution:800*600/60HZ or custom-resolution
	Interface	D-Sub 15 PIN standard VGA port
Power	DC 12V 1.0A	

Note:

1. YPbPr = YUV
2. Input Horizontal Frequency Rate 12 kHz to 40 kHz automatically recognized.
3. Support RGB and YPbPr
4. Support Interlaced Scanning and Line by Line Scanning.
5. Support Vertical Resolution from line200 to line 600 automatically recognized.
6. Support variable Horizontal Resolution automatically recognized.
7. Support RGBHV (separate sync), RGSB (composite sync), automatically recognized.
8. Output resolution: 800*600/60Hz standard VGA or custom-resolution.

4. Interface Definition:



Item	Specs
① DC12V	Power input, DC12V, ≥1A
② +、-	Click it to move the cursor up/down, or modify the value
③ MENU	press it to enter into OSD menu; click it once to select and click again to exit the current line
④ NULL	Invalid interface
⑤ VIDEO IN	Interface of 9Pin cable, to be connected to the original signal of industrial machines

5. Definition for I/O Interface:

PIN	Input Signal
p1(GND)	Connect to the ground
p2(GND)	Connect to the ground
P3(R)	connect R(ed) interface of the input device
P4(G)	connect G(reen) interface of the input device
P5(B)	connect B(lue) interface of the input device
P6	Undefined (null)
P7	Undefined (null)
P8(H)	connect H(CS) interface of the input device
P9(V)	connect V interface of the input device

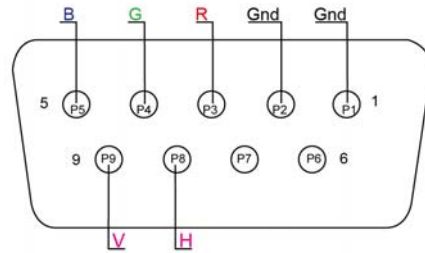


Figure: Definition for Input Channel II

6. Operation Menu

一般设定 (Setting)	高级设定 (Advance)
水平位置 (H_Position)	+38
水平大小 (Width)	-16
垂直位置 (V_Position)	+25
垂直大小 (High)	+05
相位调节 (Phase)	00
视频源类型 (Style)	R G B (A)
同步信号 (Sync)	SEPARATE (HV)
输入阻抗 (Resistance)	750 Ω
扫描方式 (Scanning)	Interlaced
退出&保存 (Exit&Save)	
视频源信息 (Info) HS 00.00KHz VS 000.0Hz	
GBS8219 v1.0 091230 www.gonbes.com	

7. Accessories& Details

Item	QTY	Remarks
User's Manual	1	English
Power Adaptor	1	DC12V,1A
half 9pin cable	1	
9pin M-F Connector	2	1 Male + 1 Female

Definition of 9 Pin cable

H	Brown wire	Undefined (null)
Name	Wire color	Signal
A	Silver web	Shield
B	Black wire	Ground(GND)
C	White wire	Vertical Frequency Rate(V)
D	Orange wire	Horizontal Frequency Rate(H)
E	Blue wire	Blue(B)
F	Green wire	Green(G)
G	Red wire	Red(R)



9 pin cable

8. Assembly and debugging

Step 1: access signals, if not display or display color is not correct, adjust the video source type items, adjusted to the input video signal with the same type, color, only the normal display. (Available options are: YUV color, RGB (D) digital TTL signals, RGB (A) mode may signal)

Step 2: The system can automatically identify the signal. If you adjust the first step, the image color display is no need to manually adjust the normal; if there distortions in the image, you need to manually adjust the synchronization signal and the signal source to adjust to the same types of synchronization, you can normally display.

Step 3: If the screen shows elongated, and the overflow to the bottom of the screen, put the adjusted scanning: Progressive Scan (Progressive); if the adjustment of the vertical position to a maximum, the image display is still only half of the display, put the adjust the scanning mode: interlaced scan (Interlaced).

Step 4: Adjust the horizontal position, horizontal size, vertical position, vertical size of the items, adjusted to the satisfaction of the location.

Step 5: input impedance, select the input source impedance than with select 750 in Europe, relatively light, if you choose all 750 European white side, you should choose for the 75 euro.

Step 6: the phase adjustment, if the image appears small waves up and down type jitter, can adjust the consistency with the input signal phase.

Step 7: Save and Exit: Save all the parameters and exit the menu.

9. Definitions of the back buttons



AUTO: Automatically adjust the screen display.
MENU: Brightness, Contrast, Color, Image position, OSD tools
POWER: Power button to turn on/off the monitor.
LEFT: Move left
RIGHT: Move right

Dimension of 8.4” LCD Monitor (231.2X180.6X60mm)



Dimension of 10.4” LCD Monitor(271.2X211X45mm)



Dimension of 12.1” LCD Monitor(307.6X240.6X45mm)

