

LV 58SER21

ANALOG COMPONENT OUTPUT

INSTRUCTION MANUAL

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1. SPECIFICATIONS

1.1 General

The LV 58SER21 converts one of the video signals received by the LV 58SER01A or LV 58SER04 unit in the LV 5800 or LV 7800 into an analog component signal and transmits the signal.

You can use the LV 58SER21 to display a video signal on an analog picture monitor.

1.2 Features

Analog Component Signal Output

You can display one of the video signals being measured by the LV on an analog picture monitor. You can transmit the signal using one of two output modes. In one mode, the signal in the selected area of the LV display is transmitted. In the other mode, the transmitted signal is fixed.

Output Signal Format Conversion

You can switch the output video signal format between YPBPR and GBR, regardless of the color system of the input video signal.

1.3 Specifications

1.3.1 Supported Formats

Table 1-1 Dual link system video

Color System	Quantization	Format	
		Scanning	Frame (Field) Rates
GBR 4:4:4	10 bit	1080p	30/29.97/25/24/23.98
		1080PsF	30/29.97/25/24/23.98
		1080i	60/59.94/50
	12 bit	1080p	30/29.97/25/24/23.98
		1080PsF	30/29.97/25/24/23.98
		1080i	60/59.94/50
YPBPR 4:2:2	12 bit	1080p	30/29.97/25/24/23.98
		1080PsF	30/29.97/25/24/23.98
		1080i	60/59.94/50

* Phase differences of up to 100 clocks (approx. 1.4 μ s) between links A and B are automatically corrected.

Table 1-2 Single link system video

Color System	Quantization	Format	
		Scanning	Frame (Field) Rates
YPBPR 4:2:2	10 bit	1080i	60/59.94/50
		1080p	30/29.97/25/24/23.98
		1080PsF	30/29.97/25/24/23.98
		720p	60/59.94/50/30/29.97/25/24/23.98
		525	59.94
		625	50

1. SPECIFICATIONS

1.3.2 Analog Output

Output Signal	YPBPR or GBR (the sync information is added to the Y or G channel)	
Output Connector	1 set of 3 BNC connectors	
Output Impedance	75 Ω	
Output Level		
Video Level	700 mVp-p \pm 3 %	
Sync		
HD	600 mVp-p \pm 10 %	
SD	300 mVp-p \pm 10 %	
Phase Difference	\pm 2 ns	
Frequency Response		
HD		
YGBR	700 mVp-p \pm 3 %	(1 to 20 MHz)
	700 mVp-p +3 %, -30%	(20 to 30 MHz)
PBPR	700 mVp-p \pm 5 %	(1 to 15 MHz)
SD		
YGBR	700 mVp-p \pm 3 %	(0.5 to 4.0 MHz)
	700 mVp-p +3 %, -30%	(4.0 to 5.6 MHz)
PBPR	700 mVp-p \pm 5 %	(0.5 to 2.8 MHz)

1.3.3 General Specifications

Environmental Conditions	Same as the LV 5800, LV 7800
Power Consumption	9 W max. from the LV 5800, LV 7800
Weight	0.26 kg
Accessory	Instruction manual..... 1

2. NAMES AND FUNCTIONS OF PARTS

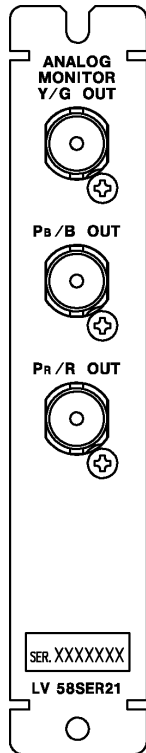


Figure 2-1 Rear panel

MON Y/G, MON PB/B, and MON PR/R

These are the output connectors for transmitting YPBPR and GBR signals.

One of the signals received by the LV 58SER01A or LV 58SER04 is converted into an analog component signal and transmitted by these connectors. Connect the connectors to an analog picture monitor or other device.

The output impedance of the connectors is 75 Ω . When you connect the connectors, use 75 Ω coaxial cables and terminate the other ends at 75 Ω .

Reference: YPBPR and GBR → Section 3.2, "Unit Setup"

3. PROCEDURE

3.1 Unit Installation

The LV 58SER21 is an output unit. When installing the LV 58SER21 into the LV 5800, refer to the LV 5800 instruction manual and install the LV 58SER21 in slot number 5 or 6. (For the LV 7800, the LV 58SER21 is a factory option.)

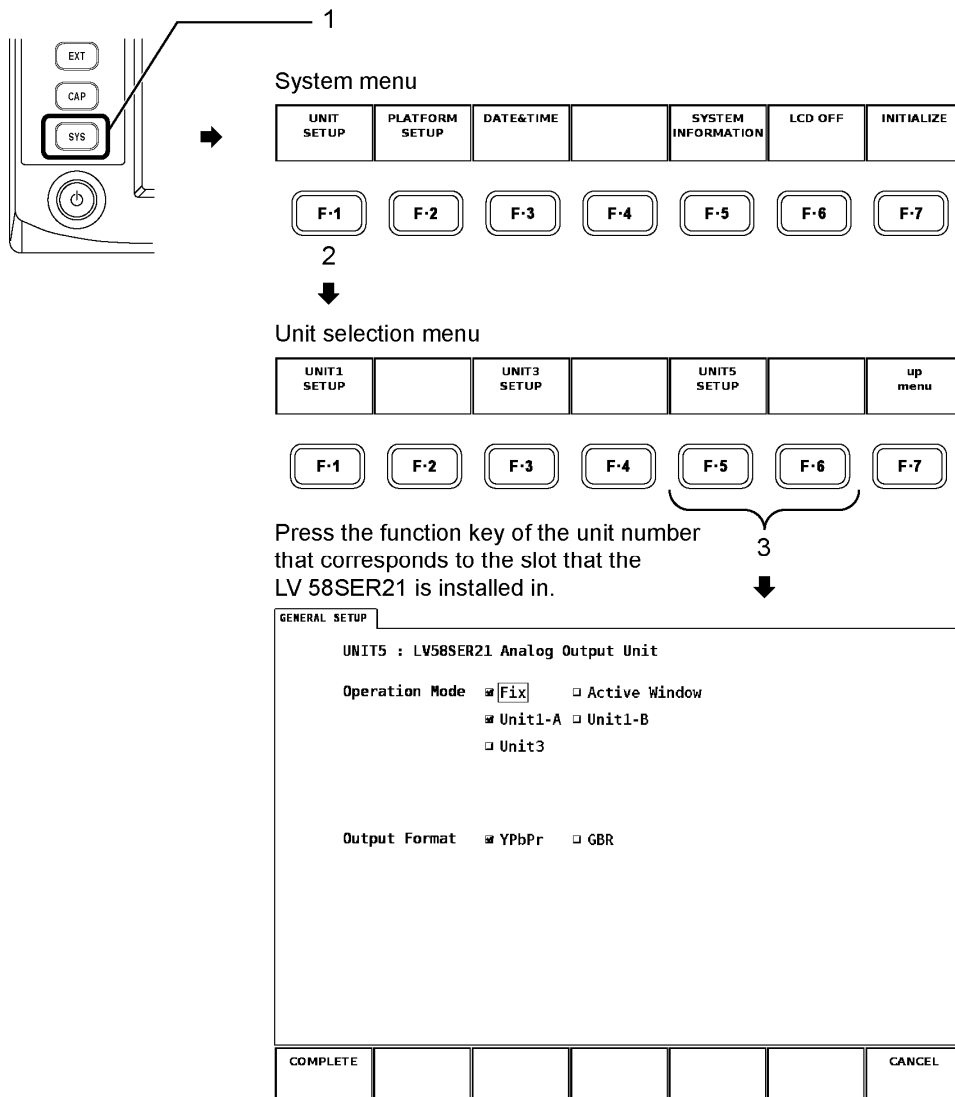
To set up the LV 58SER21 and transmit signals from it, you must also have the LV 58SER01A or the LV 58SER04 installed.

3.2 Unit Setup

You can configure the output mode and format from the LV unit setup.

In the example below, the display is that of the LV 5800 when it has the following units installed in it.

Slot No.	Installed Unit (Input)	Slot No.	Installed Unit (Output)
1	LV 58SER01A (SDI INPUT)	5	LV 58SER21 (ANALOG COMPONENT OUTPUT)
2	None	6	None
3	LV 58SER04 (MPEG DECODER)		
4	None		



3. PROCEDURE

Setting the Output Mode (Operation Mode)

You can select what signals to transmit from the LV 58SER21 from the following options.

- Fix:** The signal of the selected unit is transmitted.
When you select Fix, the unit names of the LV 58SER01As and LV 58SER04s that are installed on the LV appear below the Fix check box. Select the unit and channel (only for LV 58SER01A single link) whose signal you want to transmit.
- Active Window:** The signal from the area that you select with the LV's 1 to 4 keys is transmitted. Nothing is transmitted if you select the area of a unit other than the LV 58SER01A or the LV 58SER04. This is the default setting.

Setting the Output Format

You can choose to transmit signals using one of the following formats.

- YPbPr:** Signals are transmitted in YPBPR format. This is the default setting.
- GBR:** Signals are transmitted in GBR format.

3.3 Signal Output

Connect the ANALOG MONITOR connector on the rear panel to an analog picture monitor or other device.

One of the signals received by the LV 58SER01A or LV 58SER04 is converted into an analog component signal and transmitted by these connectors.

If you select a line on the LV 5800, the line will also be marked in the signal transmitted by the LV 58SER21. Other information besides the line select marking, such as markers and subtitle displays, will not be transmitted.

4. FIRMWARE REVISION HISTORY

This manual was written for the following firmware versions:

- Ver. 6.2 on the LV 5800
- Ver. 1.2 on the LV 7800

To check the version number, press SYS → F·5 SYSTEM INFORMATION.

Ver. 5.5 on the LV 5800 and Ver. 1.1 on the LV 7800

- The LV 58SER21 is now supported.

Following information is for Chinese RoHS only

所含有毒有害物质信息

部件号码: LV 58SER21



此标志适用于在中国销售的电子信息产品, 依据2006年2月28日公布的《电子信息产品污染控制管理办法》以及SJ/T11364-2006《电子信息产品污染控制标识要求》, 表示该产品在使用完结后可再利用。数字表示的是环境保护使用期限, 只要遵守与本产品有关的安全和使用上的注意事项, 从制造日算起在数字所表示的年限内, 产品不会产生环境污染和对人体、财产的影响。产品适当使用后报废的方法请遵从电子信息产品的回收、再利用相关法令。详细请咨询各级政府主管部门。

产品中有毒有害物质或元素的名称及含量

部件名称 Parts	有毒有害物质或元素 Hazardous Substances in each Part					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
实装基板	×	○	○	○	○	○
主体部	×	○	○	○	○	○
包装材	○	○	○	○	○	○
备注) ○: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 规定的限量要求以下。 ×: 表示该有毒有害物质或元素至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。						

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