

V9 series optional units GUR-xx lineup

Full lineup of GUR-xx, V9 series optional units for Video/RGB, has been available. They are used for the image processing apparatus or the monitor for PCs.

Lineup

We provide fulfilling lineup, 6 types of units.

Model name	Functions	Release date
GUR-00	Video input 4CH	May, 2016
GUR-01	RGB input 1CH	Feb, 2015
GUR-02	RGB output 1CH	Feb, 2015
GUR-04	Video input 1CH	Feb, 2015
GUR-10	Video input 2CH + RGB input 1CH	May, 2016
GUR-11	RGB input 2CH	May, 2016



Photo: GUR-04

Application examples

Monitor for the image processing apparatus

V9 series can be used as a monitor of the image processing apparatus by attaching units for RGB input or video input. Also, V9 series can monitor the image processing apparatus and display the screen from PCs at the same time by using multi-channel units such as GUR-10, the unit for video input + RGB input.



A schematic view for the simultaneous display for video and RGB

Display on the large-screen LCD monitor

It is possible to display the screen of V9 on the LCD monitor by attaching GUR-02 for RGB output from the V9.



It is also used as
"Andon".*

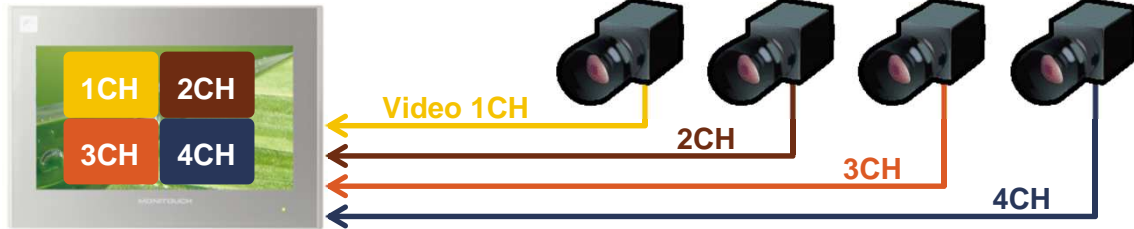


*Andon: Display system in order to display the status of production.

An application example

Surveillance monitor for machinery

It is possible to display footage from the maximum of 4 analog cameras at the same time by using GUR-00 (Video input 4CH). It is used for various purposes such as safety confirmation for production lines.



A schematic view for the simultaneous display for video 4CH

Performance comparison with our previous products (image processing)

An image processing ability of V9 series is better than that of V8 series.

Model name	Function	V8 series			V9 series				
		1CH	2CH at the same time	4CH at the same time	1CH	2CH at the same time	4CH at the same time		
V8 : GU-00 V9 : GUR-00	Video input 4CH	30fps	9-13fps	3-5fps	30fps	30fps	30fps		
V8 : GU-01 V9 : GUR-01	RGB input 1CH	60fps	-	-	60fps	-	-		
V8 : GU-10 V9 : GUR-10	Video input 2CH RGB input 1CH	Only video	30fps	9-13fps	-	30fps	30fps	-	
		Only RGB	60fps	-	-	60fps	-	-	
		Video * + RGB	Video	10-13fps	5-7fps	-	30fps	30fps	-
			RGB	25-29fps	20-22fps	-	30fps	30fps	-
V8 : GU-11 V9 : GUR-11	RGB input 2CH	60fps	25-29fps	-	60fps	30fps	-		

* Video + RGB are the condition that RGB 1CH and video 1CH/2CH are displayed at the same time on V9.

Fps: Frame per second

Product lineup comparison with other brands



*As of April, 2016,
according to our survey

Model name	Brands	Hakko	Brand A	Brand B	Brand C	Brand D
GUR-00	Video input 4CH	✓	✓	✓	✓	✓
GUR-01	RGB input 1CH	✓		✓	✓	
GUR-02	RGB output 1CH	✓		✓	✓	
GUR-04	Video input 1CH	✓		✓	✓	
GUR-10	Video input 2CH + RGB input 1CH	✓		✓		✓
GUR-11	RGB input 2CH	✓		✓		

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