

### DY75 Receiving Card

### **Specifications V3.7**

Shenzhen Mooncell Electronics Co., Ltd

# **<u>1 Product Overview</u>**

#### **Product Introduction**

DY75 is a standard receiving card that is fully researched and developed by Mooncell; it adopted 16x HUB75D interfaces; it can supports the maximum 32 groups of the parallel connection data; the maximum loading capacity could reach up to 512\*384 pixels; with strong processing ability, supper reliability and high competitive price.

#### **Application Scenarios**

It could be widely used for high-end LED display area that requires high standards; and has significant advantages in application scenarios such as led rental display, TV Broadcast, LED display for respectable Event, High-end project, etc.

# **<u>2</u>** Function Introduction

### **Displaying Effect**

	Using it with the Mooncell Calibration Software to			
It supports pixel	calibrate each one of the pixels on its brightness and			
	Chroma. It can effectively eliminate the Chromatic			
level brightness and	aberration so as to enhance its consistency of the			
Chroma Calibration	brightness and Chroma to a high level and result in a			
	better displayed effects.			
Multiple Solutions of the Displayed Effects are Supported	Using it with Monncell AutoLED Software, the Refresh and Grey Scale performances are able to take the precedence over other settings.			
The Images on the				
led screen can be				
rotated 90 degree in	Using it with Mooncell AutoLED Software.			
a factor of multiple				
times				
The images can be				
zoomed in or out	Using it with Mooncell AutoLED			
Support low brightness and high gray (18bit +)	Improve the effect of low gray display, smoother screen transition			
Support low latency	Support low-delay control and display of the receiving card, that is, on the basis of using the sending card, the time delay between the output of the signal source and the display of the light board is			



	2 frames
Support 3D	3D picture effect, you need to use 3D glasses to watch; transmit the format of the 3D signal to the 3D glasses by connecting the 3D signal transmitter.
Support RGB standalone gamma	Can independently customize the GAMMA value of RGB
HDR	Support HDR10 and HLG two video source standards; with the independent master with large load capacity, input HDR10 standard or HLG standard video source, can achieve greater brightness dynamic range and color space, greatly enhance the display image quality, make the picture more delicate and realistic
Quick light and dark line adjustment	Quickly adjust the bright and dark lines on the software, and quickly solve the bright and dark lines of the display screen caused by the splicing of the box and modules. It takes effect immediately during the adjustment process, which is simple and easy to use



### Enhanced Operability:

The Receiving Card	Using the Network Port testing function on Mooncell
	AutoLED Software, the receiving card serial number
is Supported to	and the Network Port Information will be displayed
detect its own	on the target cabinet. Users will be able to get to
Sequence number	know the locations of the receiving cards as well as
Sequence number	its
	Connection diagram.
Data Port User-	Using it with the Mooncell AutoLED Software, you
Defined is supported	can detect and edit the output data of the receiving
Denned is supported	cards.
To build up a	On AutoLED Software, there is an 'Advanced
complicated cabinet	Setting', from here you can quickly arrange or
is supported	structure the
	modules at your option.
To structure a	On AutoLED Software, there is a "Complicated Led
complicated Led	Screen Connection", from here you can quickly
Screen is supported	arrange or structure the cabinet modules on your
	option.

### Hardware Stability

Ethernet Cable Backup(Hot Backup)	The main cable will be having the loop connection. If there's one cable breaks then still there will have another one to make sure the led display work properly. Dual receiving cards backup is supported( Dual Circuit backup design) Customized :when the main working receiving card fails, the other one (backup) will take its job to keep the led display working properly.
---	---





### Smart Software and Hardware Stability

The receiving card can read the configuration data back from where it has been stored	You will be able to do this on Mooncell AutoLED Software.
It supports to detect the error rates of the network cable	On the Mooncell AutoLED Software, you can detect the network cable connectivity in real time to tell the condition of the network cables, so that you can get rid of any errors immediately.
Communication Monitoring Function	On Mooncell AutoLED Software, you can monitor the Working Status of the receiving cards in real time.



### **<u>3 Product Parameters</u>**

#### **Basic Parameters**

				Loading	
	Data	ts/ Driver IC L erfaces/	Maximum	Capacity	Loading
RGB	Ports/			After	Capacity
Parallel	Interfaces/		Loading	lightness	after Color
	QTY		Capacity	Calibrating	Calibrating
				(Pixels)	
00.0	HUB75E/	Conventional	512*384	512*256	256*320
32 Groups	16	PWM	512*512	512*512	256*320

Single Network	Scanning
Pot Cascading	Lines
Quantity	Supported
≤1000PCS	1-64 Scan



#### **Hardware Introduction**



#### **Output Port Definition**

#### Port Definition of the 32 Groups of parallel connection data





#### JP1-JP16 PIN Definition:

PIN#	1	3	5	7	9	11	13	15
Definition	R0	B0	R1	B1	А	С	CLK	OE
PIN#	2	4	6	8	10	12	14	16
Definition	G0	GND	G1	E	В	D	LAT	GND

#### J12 Definition:

PIN#	1	2	3	4	5	
Definition	GND\KEY-	KEY+	LEDR-	3V3\LED+	LEDG-	
Indicator Illustration						

#### **Indicator Illustration**

Indicator	Position	Status	Illustration
Status Indicator (Green)	U1	Flickering Slowly at a constant speed Flickering Fast at a constant speed It goes out	The receiving card is working properly, The Ethernet Cable Connection is fine, No DVI Signal The receiving card is working properly, The Ethernet Cable Connection is fine, with DVI Signal No Gigabit Ethernet Signal The receiving card is working
		Fast Flickering 3 Tunes	properly, The Ethernet Cable Loop Connection is fine, DVI Signal Input
Status Indicator	U3	Long Lasting On	Power is On



### Dimensions



www.mooncell.com.cn



# **4 Product Specifications**

#### **Specifications**

	Input Voltage	DC3.5-5.5V		
Electric Parameters	Rated Current	0.6A		
	Rated Power	3W		
Operating Environment	Operating Temperature	-20°C - 70°C		
	Operating Humidity	10%RH-90%RH		
Storage Environment	Temperature	-25°C~125°C		
Dimensions	235.5mmX52 mm			
Net Weight	106.7g			
Certifications	It conforms to RoHS and CE-EMC standards.			

#### Precautions

1. The testing (debugging) and installation should be done by the

qualified professionals

2. Anti-Static, Water-Proof and Dust-Proof Required