



# 聯利媒體股份有限公司

## 規格需求單

公文編號：

填單日期：1070528

專責養護單位：工程技術部

請購案名：Matrix Intercom 需求規格

採購類型：☐一般採購 ☒公開招

建議採購規格：（如空間不足請另以附件補充說明）

### 1、Equipment Specification

#### 1-1、Matrix Main Frame 1 Set

1-1-1、O/I Function: Must be connected the following signals

1-1-1.1、2 Wire Party-Line。

1-1-1.2、4 Wire Analog Audio。

1-1-1.3、VOIP：Voice Over Internet Protocol。

1-1-1.4、Analog Telephone。

1-1-1.5、Fiber Optic。

1-1-1.6、GPIO。

1-1-1.7、Walkie Talkie Radio。

1-1-2、Main Frame System Capacity: 200 Port or More。

1-1-3、Requirement: 144 Port or More (24 VOIP Streaming Channel or More)。

1-1-4、Main Frame Standard 19-Inch Classis

1-1-5、Control Interface: Point-to-Point Communication Setup with Laptop TCP / IP via Ethernet TCP / IP to Control The Operation of the Entire System。

1-1-6、Dual Redundant Power Supply。

1-1-7、Backup Power Supply。

1-1-8、Dual Redundant Processor System。

1-1-9、Include the System Configuration Software and Compatible Laptop Computer。

#### 1-2 Keypanel

1-2-1、12 Key Keypanel

1-2-1-1、LCD or OLED Display and Support Chinese Characters。

1-2-1-2、12 Key or More、With Telephone Keypad、Call Signal and Layer Function。

1-2-1-3、Each Key Must Have The Ability to Switch Between Talk and Listen。

1-2-1-4、Requires Both Analog or Digital and VOIP Connection Port。

1-2-1-5、Volume Control and Headset Connector。

1-2-1-6、Gooseneck Mic. Socket。

1-2-1-7、Backplane needs Line in and Line out。

1-2-1-8、Headset Connector needs XLR 4 Pin Male Deck。

1-2-2、12 Key Desk-Top Keypanel

1-2-2-1、LCD or OLED Display and Support Chinese Characters。

1-2-2-2、12 Key or More、Call Signal and Layer Function。

1-2-2-3、Each Key Must Have The Ability to Switch Between Talk and Listen。

1-2-2-4、Requires Both Analog or Digital and VOIP Connection Port。

- 1-2-2-5 、 Volume Control and Headset Connector 。
- 1-2-2-6 、 Gooseneck Mic. Socket 。
- 1-2-1-7 、 Backplane needs Line in and Line out 。
- 1-2-1-8 、 Headset Connector needs XLR 4 Pin Male Deck 。
- 1-2-3 、 32 Key Keypanel
  - 1-2-3-1 、 LCD or OLED Display and Support Chinese Characters 。
  - 1-2-3-2 、 32 Key or More 、 With Telephone Keypad 、 Speaker 、 Call Signal and Layer Function 。
  - 1-2-3-3 、 Each Key Must Have The Ability to Switch Between Talk and Listen 。
  - 1-2-3-4 、 Requires Both Analog or Digital and VOIP Connection Port 。
  - 1-2-3-5 、 Volume Control and Headset Connector 。
  - 1-2-3-6 、 Gooseneck Mic. Socket 。
  - 1-2-1-7 、 Backplane needs Line in and Line out 。
  - 1-2-1-8 、 Headset Connector needs XLR 4 Pin Male Deck 。
- 1-2-4 、 12 Key Extension Keypanel
  - 1-2-4-1 、 Shall be Compatible with Keypanel 。
  - 1-2-4-2 、 LCD or OLED Display and Support Chinese Characters 。
- 1-2-5 、 VoIP Virtual Keypanel
  - 1-2-5-1 、 The Virtual Keypanel Can Install APP on Both Android and iOS Mobile Devices or PC with at Least 12 Key 。
- 1-2-6 、 Goosneck Microphone
 

|                                              |        |
|----------------------------------------------|--------|
| 1-2-6-1 、 60cm (+/- 5%) Goosneck Microphone  | 23 set |
| 1-2-6-2 、 50cm (+/- 5%) Goosneck Microphone  | 10 set |
| 1-2-6-3 、 30cm (+/- 10%) Goosneck Microphone | 42 set |

The above demand quantity, see the attachment table

### 1-3 、 Digital Wireless Intercom System

- 1-3-1 、 Base Station          2 Set
  - 1-3-1-1 、 1-3-1-1 、 Shall be Integrated Into the New Matrix Main Frame 、 Existing OB Van Matrix System and Mobile EFP System 。
  - This System Need to Provide Minimum 4 Channel 2 Wire or 4 Wire Port With Audio 、 Call Signal and Communication Data Solution 。
  - 1-3-1-2 、 System Remote Antenna Capacity to 10 。
  - 1-3-1-3 、 Such as Use Multi Base Station of Structure Shall to Achieve Roaming Zones Function, When the Beltpack Move to Different Base Station Coverage Area Can be Automatically Connected Without Having to Re-Pair 。
  - 1-4-1-4 、 Fully Bi-Directional Communication and Offer 7Khz Bandwidth Audio Quality 。
- 1-3-2 、 Beltpack                                  16 Unit
  - 1-3-2-1 、 Internal Antenna 、 Support 4-CH 、 Volume Adjusted 、 With the Call Button and Indicator 。
  - 1-3-2-2 、 Two Battery Options – Rechargeable Li-Ion Cells or Disposable Alkaline AA Batteries 。
- 1-3-3 、 Transceiver Antenna                                  5 Unit

- 1-3-3-1 、 Each Antennas Support to 5 Beltpack Bi-Directional Communication ◦
- 1-3-3-2 、 Support 1.88-1.90 GHz EU Band ◦
- 1-3-3-3 、 Support Auto Roaming Function ◦
- 1-3-3-4 、 Power: Both Power Supply and Powring from Base Station by Cable.
- 1-3-4 、 Battery and Beltpack Charger                      4 Set
  - 1-3-4-1 、 Five at the Same Time Charge
- 1-3-5 、 Single Ear Headset                                      16 Pcs.
  - 1-3-5-1 、 Beyer DT-108 ◦
  - 1-3-5-2 、 If Contractor to Issue Different Brands , That Need to Provide Samples for Test Then After to Approve ◦
- 1-3-6 、 Battery and Beltpack Charger Airtight trolley case                                      2 Sets
  - 1-3-4-1 、 All Beltpacks Can Charged at the Same Time

## 1-4 、 Interface

- 1-4-1 、 Remote 4 Wire IP Interface                      2 Ch.
  - To Communication the Remote Anologe Keypanel or 4-Wire Device via LAN, WAN ◦
- 1-4-2 、 Remote 2 Wire IP Interface                      2 Ch.
  - To Communication the Remote 2-Wire Device via LAN, WAN ◦
- 1-4-3 、 2 Wire Party-Line Interface                      24 Ch.
  - Provide the System Required of 2-Wire Intercom Channels, or Integrate the Existing 2-Wire Intercom Signal to the Matrix Main Frame ◦
- 1-4-4 、 4 Wire Analog Audio Interface                      4 Ch.
  - Provide the System Required of 4-Wire Intercom Channels, or Integrate the Existing 4-Wire Intercom Signal to the Matrix Main Frame ◦
- 1-4-5 、 Analog Telephone Interface                      10 Ch.
  - Provide the System Required of Analog Telephone Channels, or Integrate the Existing Analog Telephone Signal to the Matrix Main Frame ◦
- 1-4-6 、 Walkie Talkie Radio Interface                      4 Ch.
  - Provide the System Required of Walkie Talkie Radio Channels, or Integrate the Existing Walkie Talkie Radio Signal to the Matrix Main Frame ◦

The above demand quantity, see the attachment table

## 1-5 、 Accessories

- 1-5-1 、 Cable Drum                                              2 Unit
  - Cable Drum with 100 M Compatible Cat Cable and Connector ◦
- 1-5-2 、 5 Port PoE Ethernet Hub                      2 Unit
  - Compatible with Wireless Transceiver Antenna Extension ◦
- 1-5-3 、 PC Setup Computer                                      2 Unit
  - Lenovo ThinkPad X1c20HRA010TW 、 Dell M3520 Mobile workstation or HP ZBook 14u Mobile workstation
- 1-5-4 、 Mac Setup Computer                                      1 Unit

## **2 、 Installation and Ancillary Works**

### **2-1 、 The Bidder Need to Provide the Following Documents with Quotation**

- Refer to the Existing System of Overall System Planning Instructions and the Corresponding List of Equipments 。
- Each Equipment's Brand 、 Model and detailed Specifications 。
- Complete of the System Block Diagram 。
- Manufactory and On-Site Training Courses Program 。
- Provide a Date for Demo Unit Arrival and Presentation On-Site 。

### **2-2 、 During the Installation Period, the Contractor Shall Not Affect the Operation of the Existing System 。**When Both System to Switching that Needs at Midnight and Resume the System Operating Before the Morning of Live Broadcast 。

If Necessary the Contractor Shall Provide the Temporary Panel or Interface at Free of Charge to Keep the Normal Operation 。

### **2-3 、 This is a Turn Key Project, Where the Contractor Must Provide All the Software and Hardware Needed for the System Operating 。**

### **2-4 、 Equipment 3 year warranty**

### **2-5 、 Digital Wireless Intercom 使用頻率必須符合 NCC 規範，所提供無線頻率必須不受電信干擾，將來因受電信干擾必須無償提供更換頻率及提供解決方案。此條將列入合約內。**