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GENERAL

This installation manual is written for people who are involved with the preparation, installation and configuring the PaSS gateway system in the parking facility.

During the preparation phase of the project, the physical components and installation are defined is defined.(Rack, cameras, displays, cabling plan ...)

During the installation phase everything will be physically installed. An external party will most often mount the devices and install the required cabling. A Qpark or PMS technical person will connect the different features, such as "barrier open" , loop detectors etc, to the IO controller in the gate way rack.

During the configuration phase, the installation will be checked and accepted. The rack will be powered and the system will be configured with the correct configuration files. Also the cameras will be adjusted. Displays are loaded with the correct application and configured with the correct IP. At the end of the configuration the system is operational and ready to be put in service.

Video test



PREPARATION

PROJECT DEFINITION

Definition of the PaSS project setup, how many entries/exits, displays, pinpads, redundant or not etc.

PRE-INSTALLATION VISIT & CHECKLIST

Check practical implementation.

Where to place cameras?

Where to place rack? Is there power and network connection(s) available?

What is the distance between devices and rack?

How to connect to barriers? Type of barrier? Kind of contacts etc...

Connecting to loops and barrier feedback.

Where to place pinpad? Should it open a door? Via pinpad or IO module in rack?

Where to mount displays, how (type)?

There is a pre-installation check list document.

NETWORK

Prepare the following router and firewall configurations to be done by QPark network

Configuration Server

IPv4 Address Port Resin

Port	Detail
443 (TCP)	used to connect to the VPN and the web terminal, and many web endpoints using TLS (https:// .)
123 (UDP)	NTP time synchronisation
53 (UDP)	DNS name resolution

Domain to whitelist	Port
*.resin.io	80, 443
*.pubnub.com	80, 443

Additionally make an outgoing connection to **mixpanel.com**, but this is not a functional requirement, but rather allows us to track useful metrics

Azure

Protocol	Port
MQTT	8883
MQTT over WebSockets	443
AMQP	5671
AMQP over WebSockets	443
HTTPS	443

Logging

IPv4 Address	Port
10.16.45.214	5044

CCV

IPv4 Address Description	Description	Ports
193.172.166.19	CCV TMS Server	6600
		6900
		10040

	9996
	9997
	9998
	9999

Displays

The IPs used by the displays should have a connection to Azure.

CABLING DIAGRAM

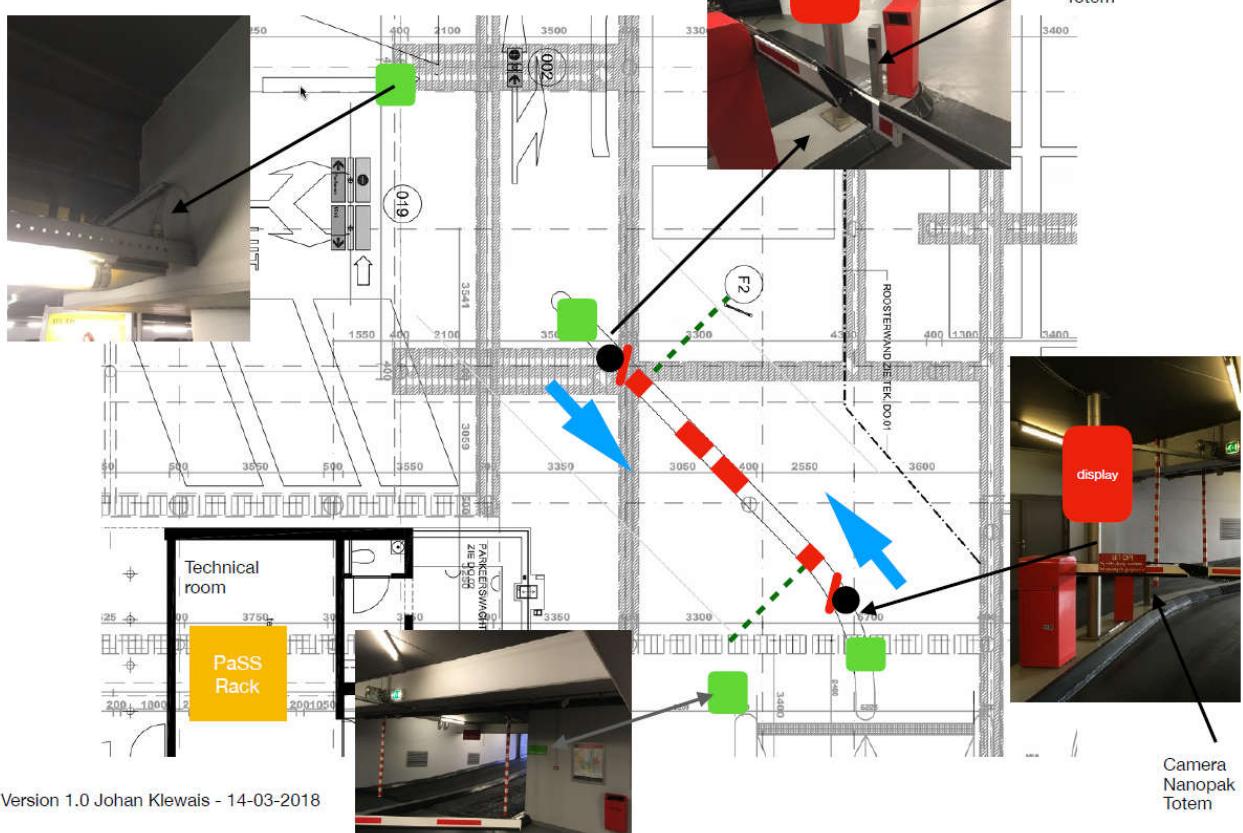
Make Floorplan + cable specifications

Take floorplan from Qpark real estate if available and draw cable connections, with devices and type of cables.

Use pictures to clarify the exact position of the camera, displays, pinpads... and the PaSS gateway rack.

Example De Colonel Maastricht NL

Bekabelingsplan PaSS - De Colonel



Cable specifications

Power cable from mains for rack	2x2.5mm ² + 2.5mm ² (or what is standard in your country)
Power cable from mains to Displays	2x2.5mm ² + 2.5mm ² (or what is standard in your country) with female mains plug
Ethernet	CAT6 Connected.
	Rack side: to female RJ45 in patch panel
	Client side: female RJ45 adapter
Power cable 24V from rack to cameras:	2 x 2.5mm ²

Signal cable from terminal to rack 8 x 0.8mm² (multicore) signal cable or more depending on connections (loops, barrier control, barrier feedback ..)

INSTALLATION

UPS Installation

NOTE: When installing the UPS or making input and output connections, comply with all relevant safety codes and standards

Rack Installation

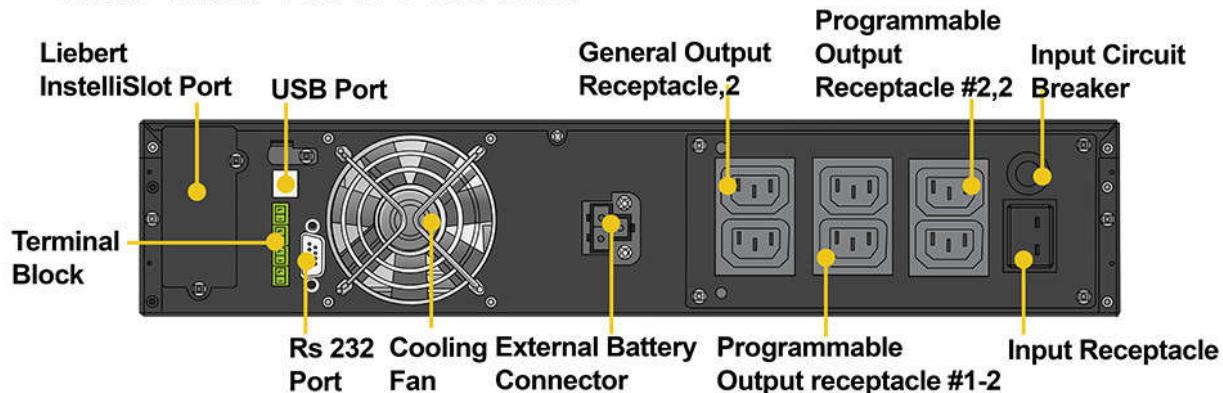
The Liebert UPS will be mounted in the rack by the rack provider. When installed in a rack enclosure, the

GXT4 UPS must be supported by a shelf or rack-mount rails. The GXT4 units ship with all required hardware for rack-mount installation. Because different rack-mount options install differently, refer to the installation instructions provided with the rack mount kit being used.

Connecting Cables

The GXT4 rear panel has an input cable and plug, output receptacles and output cable(s)

Rear View 700VA-1000VA



Connecting to AC Mains and Loads

Ensure that all the loads are turned Off. Prepare an input power supply that is properly protected by a circuit breaker in accordance with national and local electrical codes. The wall receptacle must be grounded. We recommend installing an upstream circuit breaker of the same series as the input circuit breaker of the GXT4.

The specifications of the input circuit breaker on the rear panel of the UPS are listed in the following table

NOTE: Do not overload any output receptacle. Output cable length should not exceed 10 m (32.8 ft).

To connect equipment and input power:

1. Plug equipment into the appropriate output receptacles on the rear of the GXT4.
2. Plug the input plug of the GXT4 into the input power connection.

NOTE: If the input plug is to serve as the disconnecting device, the wall socket/outlet must be near the UPS and must be easily accessible.

GXT4-700RT120 10A

500 – 2000-VA models have 3 groups of outlets:

- One group is not controlled (always On).
- Two groups are controlled with programmed responses or an SNMP network

Verify that the equipment is plugged into the appropriate outlets if any of the outlets will be controlled.

CABLING

PASS GATEWAY RACK PLACEMENT



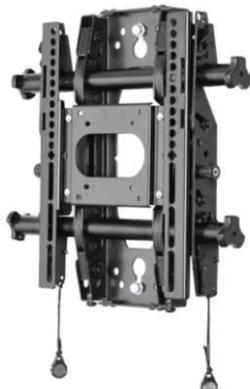
The rack has a footprint of 60cm x 60cm and is about 1.30m high and weight between 40 – 80kg

It can be placed on the floor and there are adjustable feet foreseen.

An optional platform is required to mount the rack to the wall. Do not mount the rack directly to the wall.

DISPLAYS PLACEMENT

Mounting on a pole



More info:

<https://www.milestone.com/Products/Chief/Mounts/Display/Wall-Tilting/Fusion%20Wall-Tilt/STMS1U>

Precondition:

Foresee a CAT6 ethernet cable and a mains power connection.

Display 42BDL5057P Specifications:

Power input: 100 - 240V~, 50 - 60Hz, 5.5A max 215W typ 85W

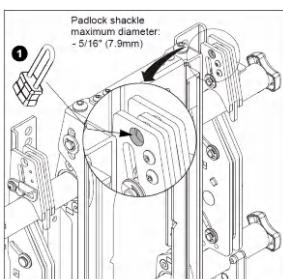
Weight: 15.5W

Dimensions: 950 x 541 x 71 mm



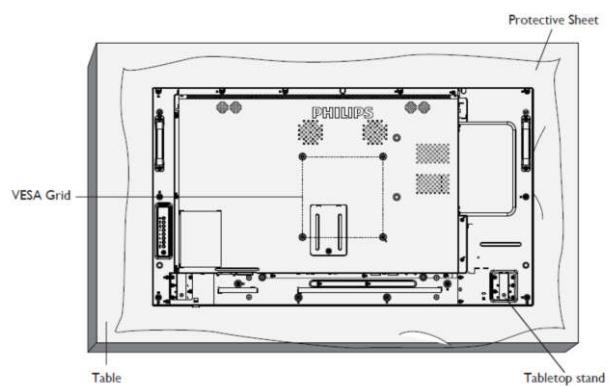
figure 1 Display mount
De Colonel

These display holders have the possibility to protect the display against theft by a padlock through the mount.



Mounting on a Wall

To mount this display to a wall, you will have to obtain a standard wall-mounting kit



Mounting in Portrait Position

This display can be installed in portrait position.



1. Remove the table stand, if attached.
2. Rotate 90 degrees clockwise. The " " logo should be on the LEFT side when facing the display.

CAMERA PLACEMENT

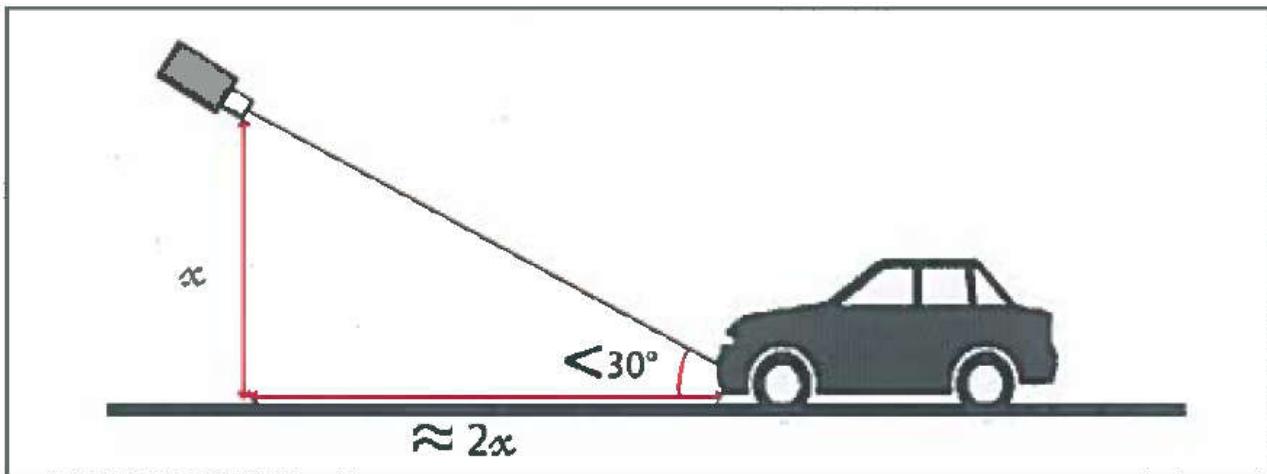
The camera position is directly linked to the performance and user experience of the system. It is important that the below conditions are respected:

Distance restrictions

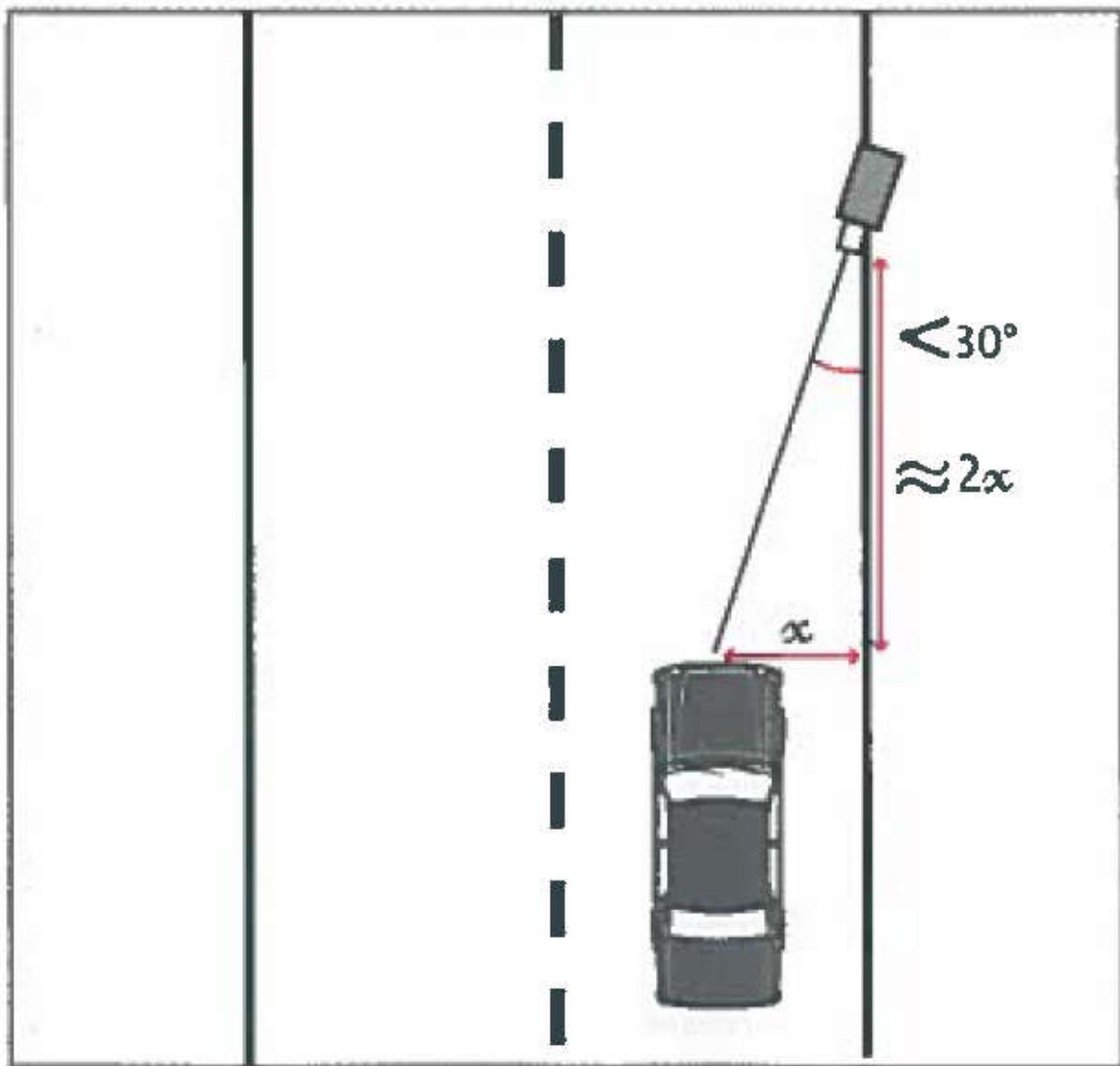
Sensor	Min. distance	Max. distance	Max. distance for small plates (bikes)	Max. width of lane covered	Max. width of lane covered for small plates
Nanopak	2m	8M	5M	2.8m	1.8m
Micropak	2m	20m	13m	2.8m	1.8m

Angle restrictions

The addition of vertical and lateral angles between the road and the boresight axis should not exceed 30 degrees.



For optimal functioning, the camera should have at least a slight vertical angle to avoid direct illumination from the sun.



Distance *	Height or max. side distance for 30 degrees
2m	1m
5m	2.5m
10m	5m
15m	7.5m
20m and above	10m

Distance on the ground between the sensor and the plate position for sensor adjustment

To adjust the sensors, please consult the VSS user tutorial (camera setting tool)

If the cameras are installed before being connected to the power supply and network, it is essential to protect the connectors against water entry.

CONNECTING

CONNECTING RACK

To Mains Power

The mains power of the rack should be connected to a power outlet supplying (2200W? / 10A)

(to be reviewed)

To Camera's

The power cables from the cameras will be connected to the DIN terminals in the rack. They are connected via an individual fuse to the 24V supply rail.

To Network

A network cable will arrived at a terminal of the patch panel in the rack. There it will be connected to a network switch (in a Basic configuration connected to the network switch or in a Redundant configuration to a Red module)

To Displays

The mains power of the displays are connected to DIN rail terminals. These are connected to the fused mains power input. (The displays are not connected to the UPS)

CONNECTION TO LEGACY PMS & BARRIERS

CONNECTION BARRIERS

WPS

Connect the relay NO output of the IO module to the "External Open" connection of the WPS access terminal. Same as the Command module (same as the open function via the QCR)

There is a contact available CLOSED. Now it is a opto input to the + 24V and a switch in the barrier.

If we need to read it in our IO module it should be connected to a opto connected to +24V and not to GND.

LOOPS

A QPARK field technician or a PMS technician should connect the barriers and loops of the existing PMS to the cables. In the rack these cables are connected to the DIN rail terminals and there they are routed to the input/output module.

POWER-UP & CONFIGURATION

ACCEPTANCE INSTALLATION

All cables and connections will be visually checked and cameras and displays must be disconnected.

ACCEPTANCE CABLING & EXTERNAL CONNECTIONS

Scenario:**start conditions:**

- UPS OFF
- Mains automatic fuse OFF
- mains power connected to displays (Singage screens)
- Mains automatic fuse ON
- Check power of displays (Singage screens)
- power up UPS
- check if network equipment has started
- check power supplies (+24V) adjust voltage level if needed
- check voltage and polarity on the power connectors at the camera side.
- connect power to the camera
- connect network cable to camera.
- connect pc to the camera network plug in the patch panel.

.... gaan we zo alle stappen oplijsten?? dat gaat een lange lijst worden met verschillende items voor bvb cameras, displays, pinpads, rack etc

RACK

I/O MODULE

Configuration

EK6420 module 64 inputs

Network: IP address, WEB port, TCP Binary port, 20 outputs

Redundant config: basic and redundant setup Rack IO

No	Rack IO		
0	UPS	On Battery	RACK INFO
1	UPS	Low Battery	RACK INFO
2	Power Supply 1	Ready	RACK INFO
3	Power Supply 2	Ready	RACK INFO
4	Network switch	Fault	RACK INFO
5	Network switch	Fault	RACK INFO
6	RED module 1	Status	RACK INFO
7	RED module 2	Status	RACK INFO
8	RED module 3	Status	RACK INFO
9	RED module 4	Status	RACK INFO
10	RED module 5	Status	RACK INFO
11	RED module 6	Status	RACK INFO
12		
13		
14	Camera fuse 1	Power supply behind fuse	RACK INFO
15	Camera fuse 2	Power supply behind fuse	RACK INFO
16	Camera fuse 3	Power supply behind fuse	RACK INFO
17	Camera fuse 4	Power supply behind fuse	RACK INFO
18		
19		
20			
21			
22			
23			
24			

Entry terminal IO

No	Entry	
1	Loop Terminal	Status loop detector
2	Loop Barreer	Status loop detector

3	Feedback Barreer	Status Open/Close feedback	
4	Slagboom "Permanent Open"	HW switch	QBE
5	Slagboom "Automatisch Open"	HW switch	QBE
6	Verbinding verbroken	HW switch	QBE
7	Buiten bedrijf	HW switch	QBE
8	Kaarten bijna op	HW switch	QBE
9	Volzet	HW switch	QBE
10	CCV	Niet te zien op dit moment	QBE
11	Bedrijfmodus afdwingen actief	??	QBE
12	Herstarten CCV	(nu via PLC)	QBE
13			
14			
15			
16			

Exit terminal IO

No	Exit		
1	Loop Terminal	Status loop detector	
2	Loop Barreer	Status loop detector	
3	Feedback Barreer	Status Open/Close feedback	
4	Barrier "Permanent Open"	HW switch	QBE
5	Barrier "Automatisch Open"	HW switch	QBE
6	Disconnected	HW switch	QBE
7	Out of Service	HW switch	QBE
8	Treintje rijden	HW switch	QBE
9	CCV	Niet te zien op dit moment	QBE
10	Restart CCV	(now via PLC)	QBE
11			
12			
13			
14			
15			
16			

Pay station IO

No	Paystation		
1	Disconnected	HW switch	QBE

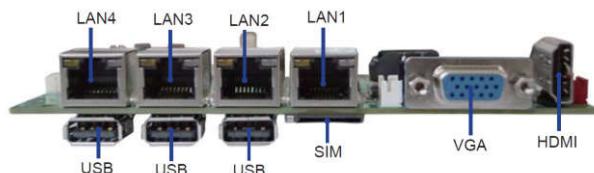
2	Out of Service	HW switch	QBE
3	Onbevoegd geopend	HW switch	QBE
4	Kaarten bijna op	HW switch	QBE
5	CCV	Niet te zien op dit moment	QBE
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Parking facility IO

No	Parking facility			
1	oppompinstallaties voor rioolwater	HW switch	QBE	pomp
2	rookafvoersystemen	HW switch	QBE	RWA
3	branddetectie	HW switch	QBE	brandcentrale
4	CO detectie	HW switch	QBE	Co Centrale
5	alarmcentrale		QBE	Inbraak Centrale
6	elektriciteit		QBE	Laagspanning bord
7	UPS		QBE	UPS
8	sprinkler systemen		QBE	sprinkler
9				
10				
11				
12				
13				
14				
15				
16				

NETWORK ACCESS

PC



• RJ45 LAN Connector--- LED define Giga/100MB Connector

Indicate	Side	10 Mbps		100 Mbps		1000 Mbps		
		Back	Front	Back	Front	Back	Link	ACT
LAN Light		Orange	Orange	Green	Orange	Orange	Red	Orange

If a new factory reset PC is used:

Enter Setup

Power on the computer and press **** key immediately to enter Setup.

If the message disappears before you respond but you still wish to enter Setup,

restart the system by turning it OFF then ON or pressing the "RESET" button on the

system case. You may also restart the system by simultaneously pressing **<Ctrl>**,

<Alt> and **<Delete>** keys.

Plug in ID key

Plug in USB key with start image

Reboot

| The rest of the procedure

Install new resin image (dhcp or static IP?)

In a resin application, click the green "add device" button.

Click on "download ResinOS"

Extract the zip.

Flash the image on the usb drive using Etcher.

Plug in the power cable and ethernet cable in port LAN1.

Boot the device without the USB stick and go into the BIOS by holding Delete/Del.

Change the following boot settings:

These should only be temporary steps since the hardware supplier will do these later on.

SATA Controller => enabled

Chipset SATA Mode : AHCI (not IDE)

SATA Speed : Gen 2

Dual Boot Type

Quiet boot disabled

EFI Legacy device order : legacy first

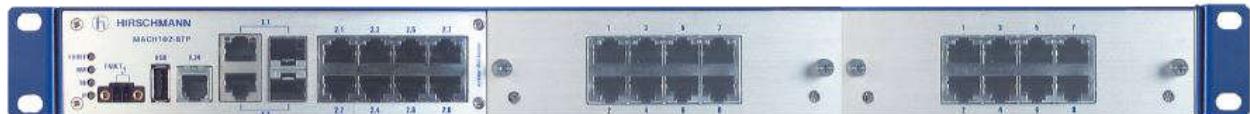
Plug the USB stick in, the device will boot into resin and it will reboot, the device will appear in resin under the application.

Once you see the device in resin.io, wait till the device is completely shutdown, unplug the USB stick and boot.

Remark: Is static IP configuration defined in configuration file on the USB stick?

NETWORK SWITCH

MACH-102



MACH 102-24TP-F

Industrial ETHERNET (Gigabit) Switch.

ACA
Power ○ ○ ○ ○ RM
Status

RED 25

This module is only used in the redundant rack configuration and is needed to split single ended network users into two Ethernet access connections running PRP (Parallel Redundant Protocol)

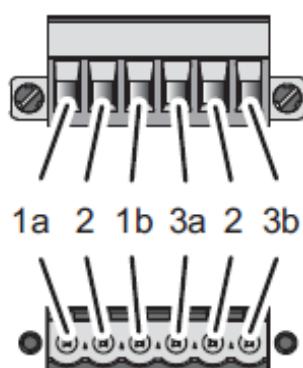


LED	Display	Color	Activity	Meaning
Power	Supply voltage	—	None	Supply voltage is too low
		Yellow	Lights up	Device variants with redundant power supply: Supply voltage 1 or 2 is on
			flashes 4 times a period	Software update is running. Maintain the power supply.
		Green	Lights up	Device variants with redundant power supply: Supply voltages 1 and 2 are on
Status	Device Status			Device variants with single power supply: Supply voltage is on
		—	None	Device is starting and/or is not ready for operation
		Green	Lights up	Device is ready for operation. Characteristics can be configured
		Red	Lights up	Device is ready for operation. Device has detected at least one error in the monitoring results
			Flashes 1 time a period	The boot parameters used when the device has been started differ from the boot parameters saved. Start the device again.
			flashes 4 times a period	Device has detected a multiple IP address

LED	Display	Color	Activity	Meaning
RM	Ring Manager	—	None	No redundancy configured
		Green	Lights up	Redundancy exists
			Flashes 1 time a period	Device is reporting an incorrect configuration of the RM function
		Yellow	Lights up	No redundancy exists
ACA	Storage medium ACA21- USB/ACA22-USB	—	None	ACA storage medium not connected
		Green	Lights up	ACA storage medium connected
			Flashes 3 times a period	Device writes to/reads from the storage medium
		Yellow	Lights up	ACA storage medium inoperative

Display	Color	Activity	Meaning
Link status	Green	None	Device detects an invalid or missing link
		Lights up	Device detects a valid link
		Flashes 1 time a period	Port is switched to stand-by
		Flashes 3 times a period	Port is switched off
Yellow	Yellow	Lights up	Device detects a non-supported SFP transceiver or a non-supported data rate
		Flashing	Device is transmitting and/or receiving data
		Flashes 1 time a period	Device detects at least one unauthorized MAC address (Port Security Violation)

Connector



- 1 Power supply connection 1

1a	24 V
1b	0 V
- 2 Connection for the signal contact
- 3 Power supply connection 2

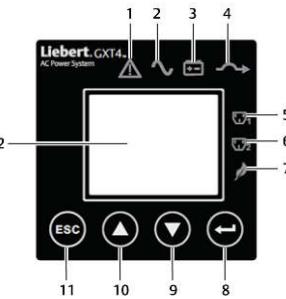
3a	0 V
3b	24 V

UPS

GXT4 VERTIV 700VA Libert

Operation

The operation and display panel on the front of the GXT4 has control buttons, LED indicators and a liquid-crystal display (LCD).



1 Fault indicator

7 ECO mode indicator

2 Inverter indicator

8 Enter button

3 Battery indicator

9 Down button

4 Bypass indicator

10 Up button

5 Programmable-outlet 1 indicator

11 Escape button

6 Programmable-outlet 2 indicator

12 LCD panel

LED Indicators

• Programmable Outlet2

The LED indicators on the front of the operation and display panel are:

• ECO Mode

- Inverter

• Fault

- Battery

Inverter Green On when the inverter is supplying power

- Bypass

Bypass Amber On when the load is supplied by the mains through automatic/manual bypass

- Programmable Outlet1

Battery Amber On when the load is supplied by the battery

Fault Red On when an error has occurred within the UPS

Programmable Outlet1 Green On when programmable Outlet1 is On

Programmable Outlet2 Green On when programmable Outlet2 is On

ECO Mode Green On when the UPS is in ECO Mode

Control Buttons

ESC Pressing this button returns to the previous menu or aborts any change in the input data field before confirming.

Up

Pressing this button can move the cursor up or increase the value displayed in the input data field. When a menu

is displayed on several screens, pressing the button can scroll up.

Down

Pressing this button can move the cursor down or decrease the value displayed in the input data field. When a menu is displayed on several screens, pressing the button can scroll down.

Enter Pressing this button can enter the next level menu or confirm the parameter setting value.

Operations & Display Panel

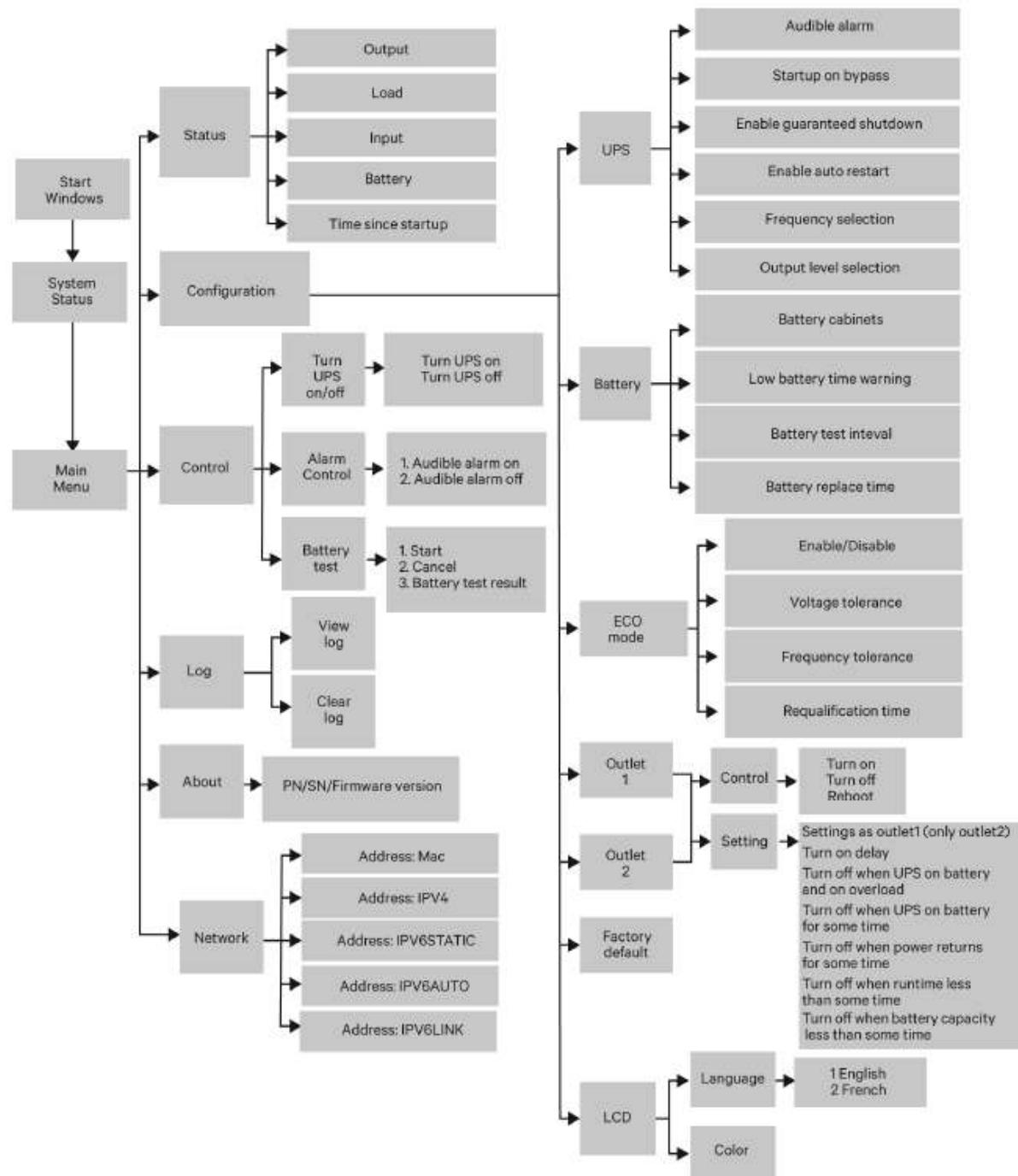
LED Indicators

Control Buttons

Up

Down

Menu Structure



KEYPAD

(to be defined ...)

CAMERA'S SURVISION

Follow these 15 essential steps in order to have an optionally functioning camera.

For more details however, please consult the VSS User Guide and the Camera Installation Guide, both available on my.survision.fr

1. Download the VSS application from our site my.survision.fr. For this,

input the ID and password provided by SURVISION, and then go to

the "Software" tab.

If you do not know, or have lost your access details, please contact:

support@survision.fr.

2. Install VSS on your computer. The minimum required specification

is Windows XP.

3. Install your SURVISION equipment using the mechanical parts

provided.

4. Connect the power supply cable provided to the power supply unit.

The brown or red wire corresponds to the terminal, and the blue

or black wire to the terminal. The power supply may be either 12

or 24 volts (see the sticker on the back of the camera: polarity and

voltage indications must imperatively be complied with). The

cabling should be completed as soon as the camera is installed, in

order to ensure that it will be waterproof.

5. Fit the Ethernet connector provided onto an Ethernet cable and

connect it all to the camera. See the "Ethernet Connector Installation" sheet. The connector must be correctly fitted in order

to ensure waterproofness.

6. Connect the camera to your computer, either directly by means of

the Ethernet cable, or, if the camera is on a local network, by

connecting the computer to a switch of this network. Configure a

fixed IP address for your network card within the range 192.168.0.X.

7. Start the VSS. Each camera is represented by a line on the screen on

which you double click to connect to the camera.

8. Place a vehicle or plate at the center of the desired recognition

zone. Display the grill on the VSS and direct the camera in such a

way that the plate is both horizontal and at the center of the image.

9. Adjust the camera zoom ("Camera" tab) in such a way that the plate

measures a minimum of 130 pixels and a maximum of 170 pixels,

measured from the left side of the first character to the right side of

the last character.

10. Adjust the focus by clicking on "Detect focus" ("Camera" tab).

11. Adjust the power of the LEDs ("Camera" tab):

- 500 mA for a distance of less than 5 meters

- 1,000 mA for a distance between 5 and 10 meters

- 1,500 mA for a distance between 10 and 15 meters

- 2,000 mA for a distance of more than 15 meters

12. Choose the most appropriate enslavement for the situation

("Settings" tab, "Enslavement" menu, "Edit"):

- Urban Free Flow: for an application in urban zones or in non-stop

toll lanes (<50 km/h)

- Free Flow: for a road application where the vehicles are unlikely to

stop in the image (> 50 km/h)

- Access Control: for an access control application (the vehicles stop

momentarily on the screen)

13. Select the geographic installation zone of the camera ("Settings"

tab, "ANPR" menu, "Edit") and indicate whether you also want to

recognise foreign plates.

14. The camera adjustment is now complete. Save the configuration on

an XML file ("Settings" menu, "Save Configuration to File") and save

a recognition image ("Detections" tab, click on "View" and then on

"Save") and push these two elements onto our site my.survision.fr

by connecting them to the camera which has been adjusted

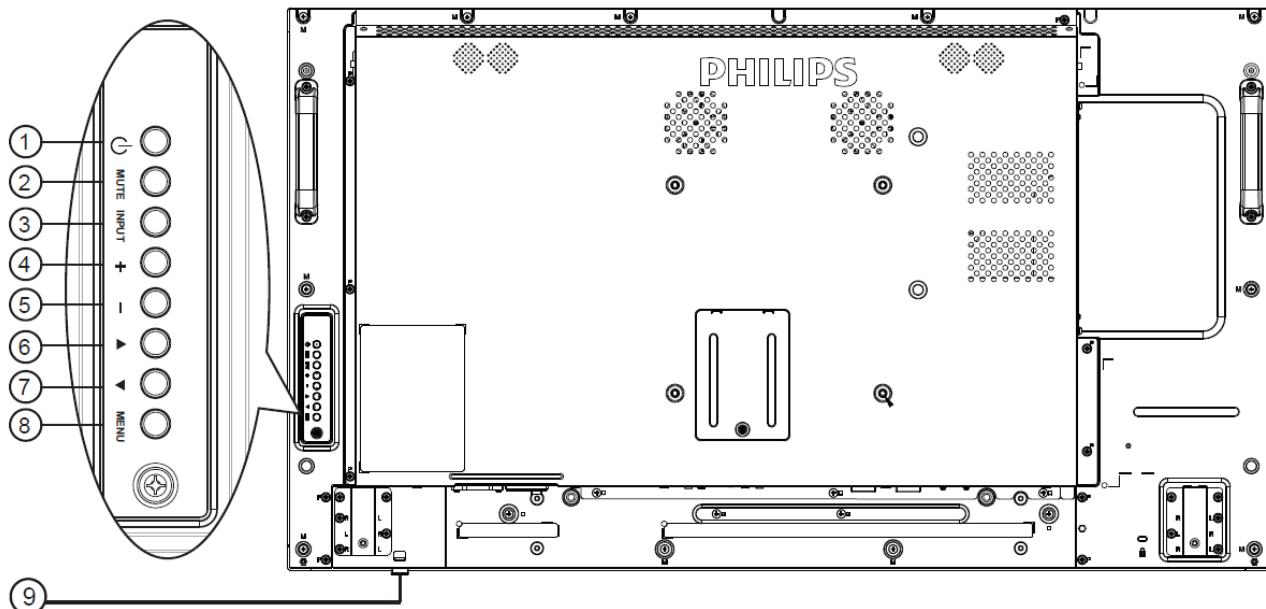
correspondingly

15. Close the VSS while waiting for the camera to disconnect

completely

DISPLAYS

Philips Signage display 42BDL5057P



1 [] button

Use this button to turn the display on or put the display to standby.

Move the highlight bar up to adjust the selected item while OSD menu is on.

2 [MUTE] button

Switch the audio mute ON/OFF.

7 [] button

Move the highlight bar down to adjust the selected item while OSD menu is on.

3 [INPUT] button

Choose the input source.

8 [MENU] button

Return to previous menu while OSD menu is on, or to activate the OSD menu when OSD menu is off.

4 [] button

Increase the adjustment while OSD menu is on, or increase the audio output level while OSD menu is off.

9 Remote control sensor and power status indicator

Receives command signals from the remote control

5 [] button

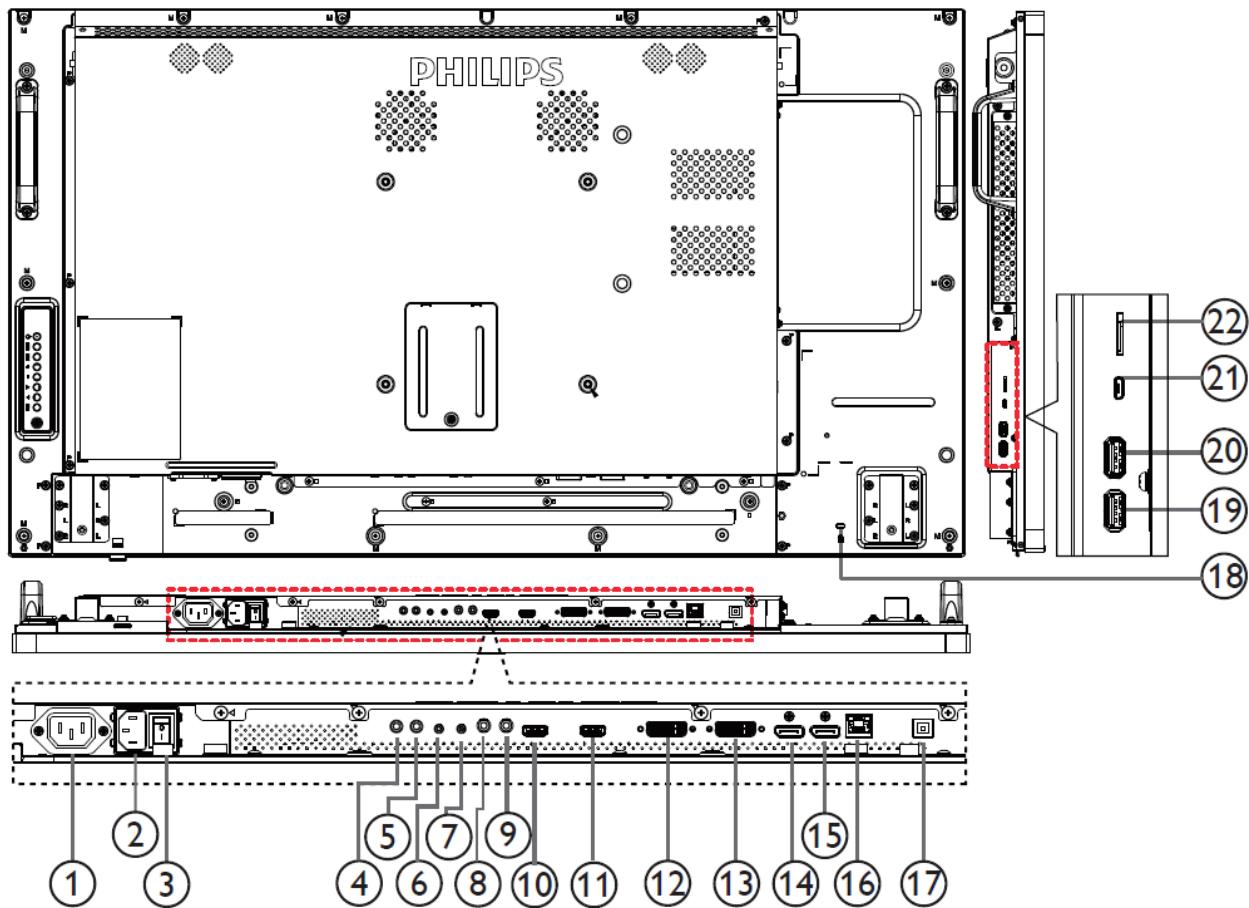
Decrease the adjustment while OSD menu is on, or decrease the audio output level while OSD menu is off.

Indicates the operating status of the display without OPS: Lights green when the display is turned on Lights red when the display is in standby mode Lights amber when the display enters APM mode When {SCHEDULE} is enabled, the light blinks green and red If the light blinks red, it indicates that a failure has been detected

6 [] button

Lights off when the main power of the display is turned off

Input/Output Terminals



AC OUT

9 AUDIO OUT

2 AC IN

10 HDMI1 IN / 11 HDMI2 IN

AC power input from the wall outlet.

12 DVI-I IN

3 MAIN POWER SWITCH

13 DVI OUT / VGA OUT

Switch the main power on/off.

14 DisplayPort IN / 15 DisplayPort OUT

4 IR IN / 5 IR OUT

16 RJ-45

6 RS232C IN / 7 RS232C OUT.

LAN control function for the use of remote control signal from control center.

8 LINE IN

17 USB PORT

Connect your USB storage device.

2 [PLAY] buttons

Control playback of media files.(for Media Input only)

18 SECURITY LOCK

Used for security and theft prevention.

Freeze feature

19 USB PORT B

Connect your USB storage device.

Pause: Freeze hot key for all inputs content.

20 USB PORT A

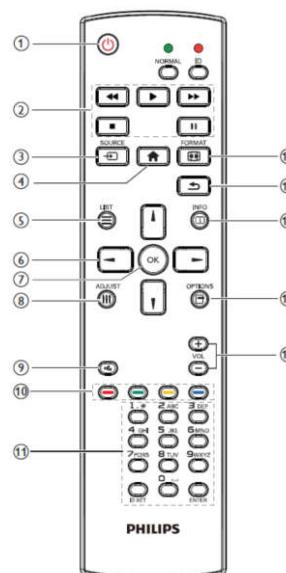
Play: Unfreeze hot key for all input content.

21 MICRO USB

Root Menu: Go to Video source OSD.

22 MICRO SD CARD

Root Menu: Go to Main Menu OSD.

Remote Control**1 [] POWER button**

Power ON/OFF.

2 [] SOURCE button

No function.

3 [] HOME button

[]

Root Menu: Go to Smart picture OSD.

Main Menu: Move the highlight bar up to adjust the selected item.

IR Daisy Chain Menu: Increase controlled Group ID number.

[]

Root Menu: Go to Audio source OSD.

Main Menu: Move the highlight bar down to adjust the selected item.

IR Daisy Chain Menu: Decrease controlled Group ID number. Press to set the display ID..

12 [] FORMAT button

Main Menu: go to previous level menu.

Source Menu: Exit source menu.

Volume Menu: Decrease Audio Volume.

13 [] BACK button

Main Menu: go to next level menu or set selected option.

Source Menu: Go to selected source.

Volume Menu: Increase Audio Volume.

14 [] INFO button

Root Menu: Go to IR daisy chain OSD in Primary/Secondary mode.

Main Menu: Confirm an entry or selection.

15 [] OPTIONS button

Go to Auto Adjust OSD for VGA only.

16 [] [] VOLUME button

Toggle Audio Mute/Unmute.

17 [] [] [] COLOR buttons

Choose tasks or options.(for Media Input only)

[] Hot key for Window selection function.

18 [Number/ ID SET/ ENTER] button

Enter text for network setting.

Change Image Zoom Mode [Full][4:3][1:1][16:9][21:9][Custom].

19 [] BACK button

Return to the previous menu page or exit from the previous function.

20 [] INFO button

Show Information OSD

21 [] OPTIONS button

No function.

22 [] [] VOLUME button

Adjust volume.

Connecting

- Keep the display out of direct sunlight and away from stoves or any other heat sources.
- Remove any object that could fall into the vents or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the cabinet.
- Keep the display dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- When turning off the display by detaching the power cable or DC power cord, wait for 6 seconds before re-attaching the power cable or DC power cord for normal operation.

- To avoid the risk of shock or permanent damage to the set do not expose the display to rain or excessive moisture.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- **IMPORTANT:** Always activate a screen saver program during your application. If a still image in high contrast remains on the screen for an extended period of time, it may leave an 'after-image' or 'ghost image' on the front of the screen. This is a well-known phenomenon that is caused by the shortcomings inherent in LCD technology. In most cases the afterimage will disappear gradually over a period of time after the power has been switched off. Be aware that the after-image symptom cannot be repaired and is not covered under warranty.

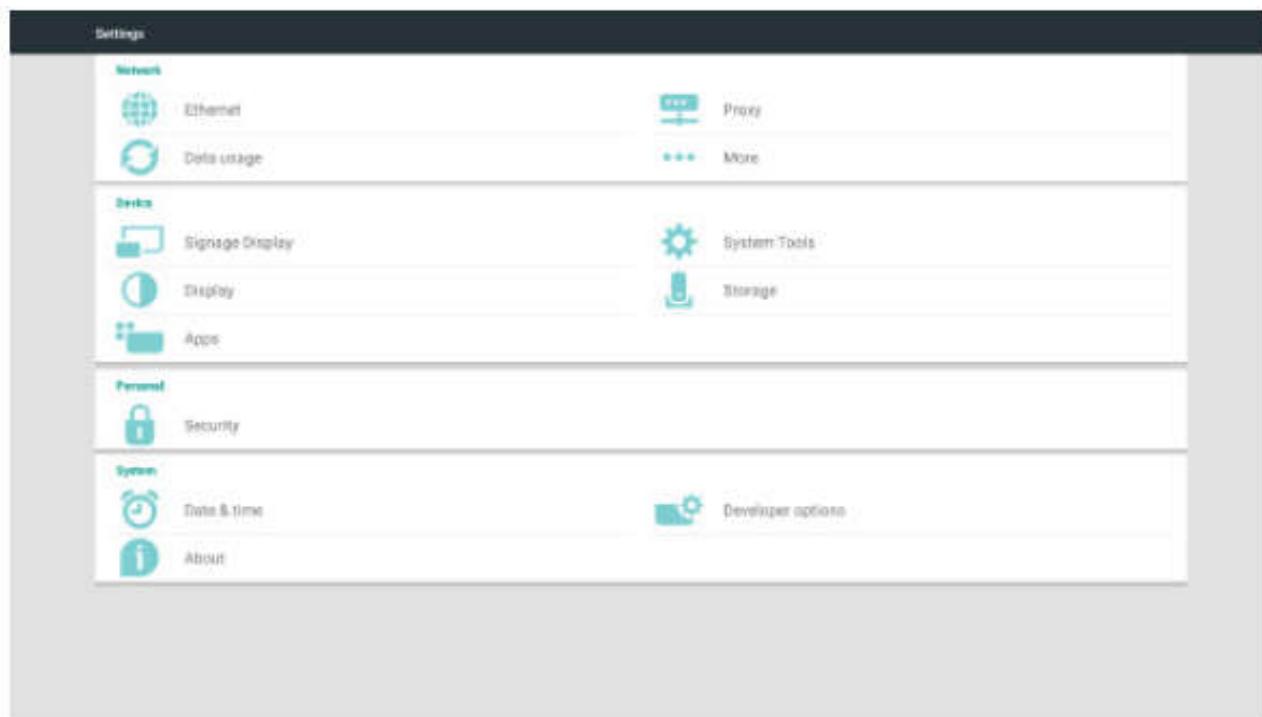
- (2) Proxy
- (3) Data usage (Show up when 4G module connected)
- (4) More (Show up when 4G module connected)
- (5) Signage Display
- (6) System Tools
- (7) Display
- (8) Storage
- (9) Apps
- (10) Security (Show up when 4G module connected)
- (11) Date & time
- (12) Developer options
- (13) About

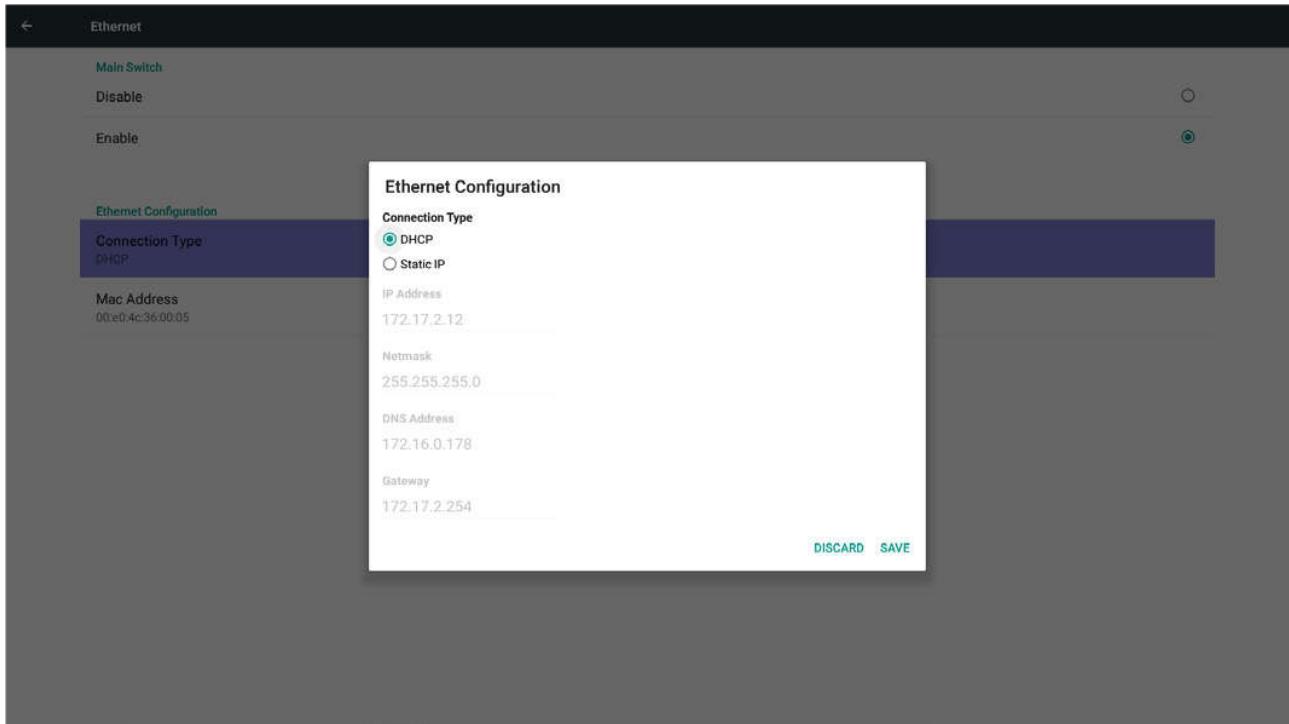
Configuring

Setting

Main items:

(1) Ethernet





ERROR SCENARIO'S

ID	Description	Component	Remote monitoring impact	QCR impact	Technical team impact	Customer impact	First solution
Gateway PC offline	Gateway PC	Gateway and components only connected to affected gateway are offline (down) – monitoring alert	Manual interaction for every customer	If needed: gateway PC replacement	Cannot enter or leave unless barrier is open	Reboot PC	
Gateway PC offline	PF Network	Every component in PF offline (down) – monitoring alert	Manual interaction for every customer	If needed: operations to local network component(s)	Cannot enter or leave unless barrier is open	Contact country HQ	
Gateway PC offline	Switch	Gateway PC monitoring alert (offline)	Manual interaction for every customer	Check switch port – replace if necessary	Cannot enter or leave unless barrier is open	Check switch port – replace if necessary	
System voltage interrupt	Rack	None	None		None		
UPS out of power	Rack	Gateway and components only connected to affected gateway are offline (down)	Manual interaction for every customer		Cannot enter or leave unless barrier is open		
Incorrect LP scan	ANPR camera	None	Manual interaction for customer	If needed: modify camera configuration	Unable to enter or leave	Check camera configuration and customer license plate if frequent issue	
Multiple LP country codes identified	ANPR camera	None	Manual interaction for customer	If needed: modify camera configuration	Unable to enter or leave	Check camera configuration and customer	

ID	Description	Component	Remote monitoring impact	QCR impact	Technical team impact	Customer impact	First solution
							license plate if frequent issue
Camera online but no incoming scans	ANPR camera - positioning	None		Manual interaction for customer	Re-position camera	Unable to enter or leave	Re-position camera
Camera offline	ANPR camera - network	Camera monitoring alert (offline)	Manual interaction for customer	If needed: operations to local network component(s)		Unable to enter or leave	Contact country HQ
Camera offline	ANPR camera - power	Camera monitoring alert (offline)	Manual interaction for customer	Check camera power		Unable to enter or leave	Check camera power
Camera offline	ANPR camera - hardware	Camera monitoring alert (offline)	Manual interaction for customer			Unable to enter or leave	Contact Survision
Camera SW container offline	ANPR camera – gateway software	Camera monitoring alert (offline)	Manual interaction for customer			Unable to enter or leave	Contact Cegeka
Camera offline	Switch	Camera monitoring alert (offline)	Manual interaction for every customer	Check switch port – replace if necessary	Cannot enter or leave unless barrier is open		Check switch port – replace if necessary
Barrier does not open	I/O module – Physical port or physical contact to barrier	Barrier monitoring alert	Customer call – unable to open barrier remotely	Check barrier physical contact and I/O output port		Unable to enter or leave	Check barrier physical contact and I/O output port
Barrier does not open – I/O module offline	I/O module – network	Barrier monitoring alert	Customer call – unable to open barrier remotely	If needed: operations to local network component(s)		Unable to enter or leave	Contact country HQ
Barrier does not open – I/O SW	I/O module – gateway software	Barrier monitoring alert (offline)	Customer call – unable to open			Unable to enter or leave	Contact Cegeka

ID	Description	Component	Remote monitoring impact	QCR impact	Technical team impact	Customer impact	First solution
container offline				barrier remotely			
Barrier does not open	Switch	Barrier monitoring alert	Manual interaction for every customer	Check switch port – replace if necessary	Cannot enter or leave unless barrier is open		Check switch port – replace if necessary
Pinpad offline	Pinpad - network	Pinpad monitoring alert (offline)	Manual interaction for customer if door not opened	If needed: operations to local network component(s)	Unable to enter door unless door open	Contact country HQ	
Pinpad offline	Pinpad - power	Pinpad monitoring alert (offline)	Manual interaction for customer if door not opened	Check camera power	Unable to enter door unless door open		Check pinpad power
Pinpad offline	Pinpad - hardware	Pinpad monitoring alert (offline)	Manual interaction for customer if door not opened		Unable to enter door unless door open	Contact Arclan	
Pinpad SW container offline	Pinpad – gateway software	Pinpad monitoring alert (offline)	Manual interaction for customer if door not opened		Unable to enter door unless door open	Contact Cegeka	
Pinpad offline	Switch	Pinpad monitoring alert (offline)	Manual interaction for every customer	Check switch port – replace if necessary	Cannot enter or leave unless barrier is open		Check switch port – replace if necessary

Q-Park has assured a number of its activities under NEN-EN-ISO 9001.

Q-Park has received several ESPA and EPA awards.

For more details and up-to-date information about Q-Park's products and services please visit: www.q-park.com.

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Quality in parking

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