PRO210-N
BROADCAST MONITOR

FORTINGE

CONTENTS

ABOUT US

Fortinge is a Publishing Technology Company that aims to be known for innovation and development in the industry and develops products in line with this goal.

We develop products within the framework of efficiency and accessibility by analyzing the needs of different customer segmentations. In this context, while we produce solutions for large TV Studios that use the most advanced infrastructures, we also market suitable products for smaller studios and individuals who broadcast by scaling these solutions.

In addition to our hardware solutions, we develop and present our software products that will work in the most compatible way with these products to our customers.

We continue to work with high motivation with our team members who are experts in their fields, our customers, and dealers in more than 60 countries to achieve our goals of continuous innovation and development, complete customer satisfaction, and is a leading company in the sector.

MANUFACTURER DETAILS

Company Name   : AKRATEK ELEKTRONİK SAN. İÇ VE DIŞ TİC. LTD.ŞTİ
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1   Operating Conditions

Electrical working values for Fortinge PRO210-N are as follows;

- DC Input Voltage
- Ensure that the electrical components are correctly positioned during operation of the product.
- The working environment must be dust free.
- Ensure that there is no water and moisture in the work environment.

2   Safety Precautions

- Do not perform repairs or maintenance while the device is under electrical voltage.
- Do not apply pressure to electrical cables or devices.
- Do not remove the coverings of power or signal cables, and do not replace them with non-standard alternatives.
- Do not perform any work on the power cords without first disconnecting them.
- The Waste Electrical and Electronic Equipment (WEEE) Directive is a European Union regulation that outlines safe and responsible collection, recycling, and recovery procedures for all types of electronic waste.

3   General Introduction

3.1   Product Name

Fortinge PRO210-N

3.2   Model Numbers

PRO210-N / PRO210-N-HB

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3.3   Technicial Specifications

Screen Size	21.5"
Color Depth	16.7M
Aspect Ratio	16:9
Brightness	500cd/m²
Contrast Ratio	1000:1
Backlight	LED

General	
Input Voltage	12V DC
Power Consumption	≤ 36W
Working Temperature	-10°C - 50°C
Storage Temperature	-20°C - 60°C
Unit Size	360W × 500.4L × 35.6H mm (W/O Bracelet)
Unit Weight	5 kg

Input	
1 X BNC	3G-SDI
1 X HDMI	HDMI
1 X RJ45	RJ45 (Ethernet)
1 X BNC	Video

Output	
1 X BNC	3G-SDI
Audio	
Audio Out	Stereo Headphone, Speaker

SDI Support Format
625i50 PAL , 525i59.94 NTSC
720p (60 / 59.94 / 50)
1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
1080PsF (30 / 29.97 / 25 / 24 / 23.98)
1080i (60 / 59.94 / 50)
NDI Support Format
Network Interfaces : 10 / 100 / 1000 Ethernet
Decoging up to 2Kp60 streams of Full NDI, NDI/HX
AAC/MP3 Audio Decoders
Support NDI 4.x (Later 5.x and latest Version)
HDMI Support Format
HDMI 1.4
1280*720p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
1280*1024p60,1024*768p60, 800*600p60
1920*1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
AV Support Format
Color System : PAL, NTSC, SECAM
Video : 1 Vp-p @ 75ohm
Audio : 550mV RMS
VGA Support Format
Sync : H:30-75 KHZ, V :56-75 HZ
Video : 0.7Vp-p @ 75 ohm
Resolution : Up to 1920*1080 @ 60HZ

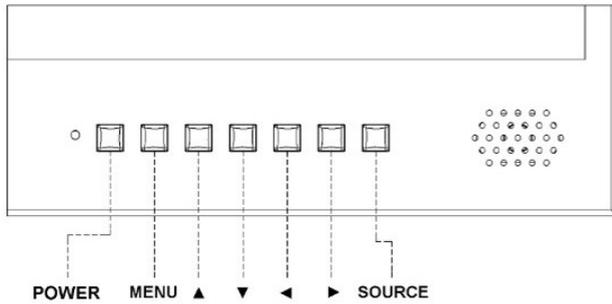# 4 Product Description

4.1 Front Panel

4.2 Rear Panel

4.3 Panel Button Instruction

- **Power**

It is used to turn the power on and off.

- **Menu**

Opens the on-screen display (OSD) menu to adjust settings such as brightness, contrast, color, and system configurations.
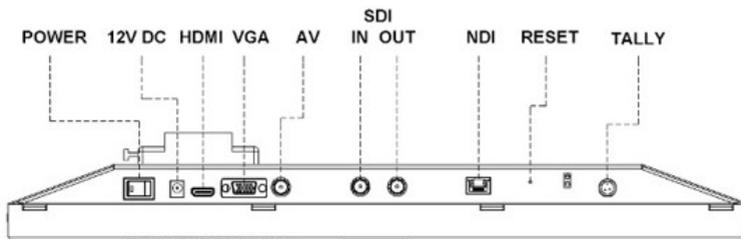
- **Arrow keys**

Used to navigate within the menu and adjust values up, down, left, or right.

- **Source**

Allows switching between different input signals (HDMI, SDI, VGA, etc.).

4.4 Inputs And Outputs

- **Power On/Off Button**

Turns the device on or off. Ensures safe startup and shutdown of the monitor. When switched off, the monitor completely disconnects from power.

- **12V DC**

Power input port for supplying 12-volt direct current to the monitor. Typically connected via adapter or XLR power connector. Stable DC input is crucial to avoid damage.

- **HDMI (IN/OUT)**

Supports high-definition digital video and audio signals. Compatible with modern cameras, laptops, and media players. Provides loop-through output for connecting to another display or recorder.

- **VGA (Input)**

Traditional analog video input. Used mostly with computers and legacy equipment. Provides compatibility with older graphic sources.

- **AV (Composite Video IN/OUT)**

Standard analog video connection, often used with DVD players, CCTV cameras, and legacy broadcast equipment. Supports loop-through signal output.

- **SDI IN/OUT (3G-SDI)**

Professional Serial Digital Interface input/output. Provides high-quality, uncompressed digital video transmission over coaxial cables. Loop-through output allows signal daisy-chaining. Widely used in studios and broadcast applications.

- **NDI (Network Device Interface)**

Enables video transmission over IP networks with low latency. Useful for live production, streaming, and remote workflows without additional capture cards.

- **Reset Button**

Used to restore the monitor to factory default settings or reboot the system in case of configuration issues. Prevents malfunction due to incorrect settings.
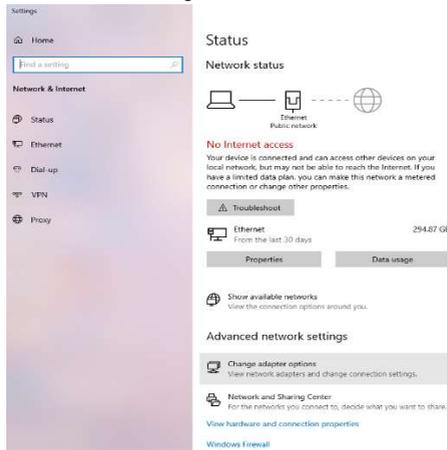
- **Tally Input**

Accepts tally signals from a switcher or control system. Lights up indicators (red, green, amber) on the monitor to show camera status.
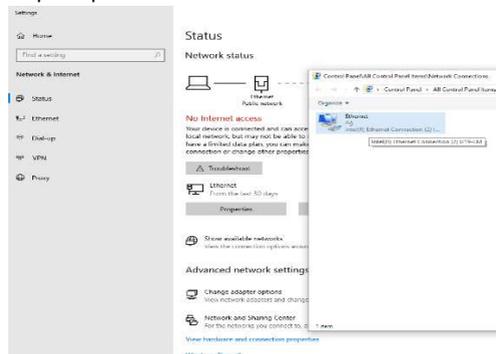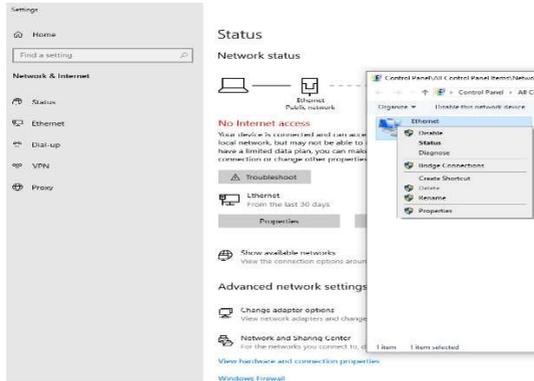
5 Connecting To NDI Monitor

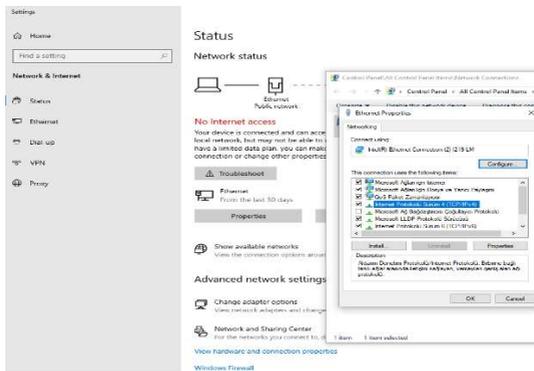Step 1: Open pc network & internet settings.

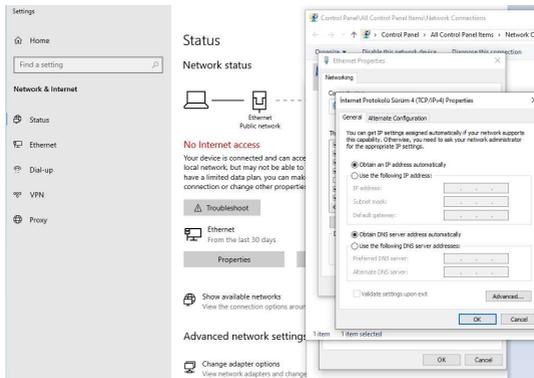Step 2: Open change adapter options.
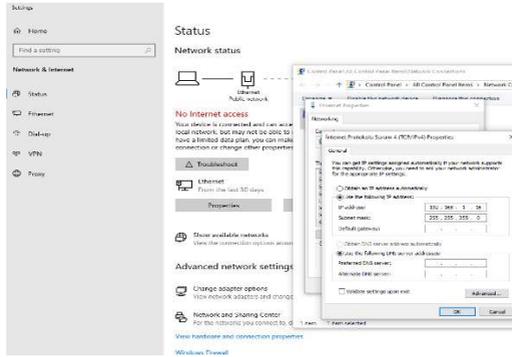

Step 3: Open ethernet connections.
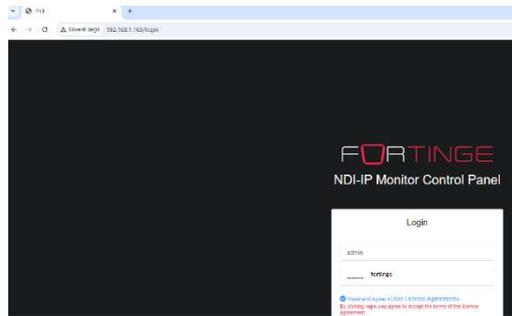
Step 4: Open properties.

Step 5: Open internet protocol version 4 (TCP/IPv4).

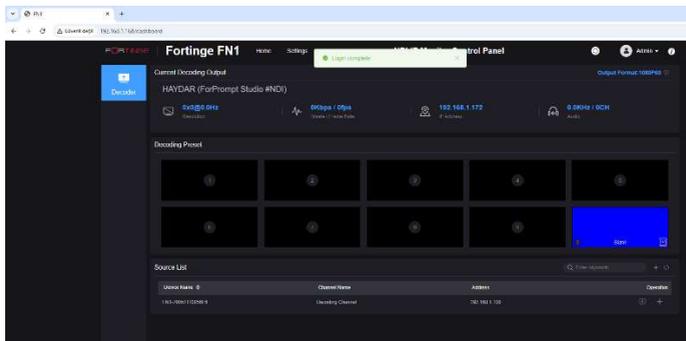Step 6: Enter the IP address manually instead of automatically.

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Step 7: Define an IP address as in the example.

Step 8: Go to this address in your browser: 192.168.1.168

Enter the following credentials to log in to the site:

- Username: admin

- Password: fortinge
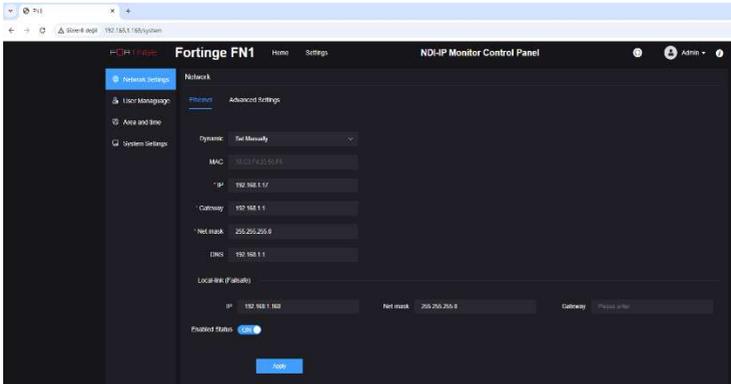
Step 9: On the page that opens , click on the settings section. In the dynamic setting , click set manually.
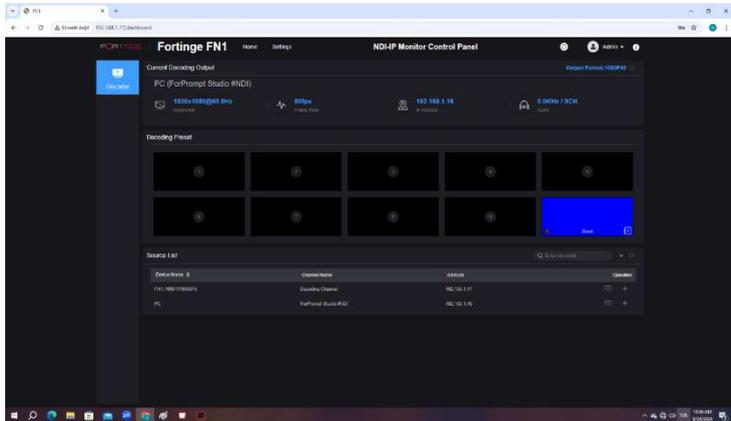
Step 10: Since we have defined a new IP , re-enter the address you defined Into the browser as shown in the picture.

Click the decode button on the far right from the pc added to the source list.

If you want to transmit images from different screens , you can click on the preset numbers and add them.

6   Battery Plates

Panasonic Anton Plate   **Sony V-Mount Plate**

We assemble the suitable battery plate for the customers according to the different requirements of the batteries.

Remark: According to the different specification of the battery, the capability is different, and the working time for the monitor will be different. Higher capability (working time) will be longer.

Without the charging circuit design for the monitor, please remove the battery to charge with the battery charger.

Suggestion: Better to remove the battery if don't use this product in a long time.

7   Menu Function Instruction

7.1   Picture Settings

In this tab, you can adjust the settings for contrast, brightness, color, tint, sharpness, color temperature, aspect ratio and noise reduction.

By pressing the picture mode button, user settings can be adjusted using the up and down buttons.

- **Contrast:** The contrast settings of the screen are adjusted from this tab.
- **Brightness:** The brightness settings of the screen are adjusted from this tab.
- **Color:** The color settings of the screen are set from this tab.
- **Tint:** The color transparency settings of the screen are set from this tab.
- **Sharpness:** The sharpness settings of the screen are adjusted from this tab.
- **Color Temperature:** The color temperature settings of the display are adjusted from this tab.
- **Aspect Ratio:** The aspect ratio can be selected as 4:3 and 16:9.
- **Noise Reduction:** The noise reduction settings of the display are adjusted from this tab.

7.2   Sound Settings

Sound settings for the screen are selected in this menu. The user settings for Standard, Music, Movie, Sports, user can be set from this tab. Treble, Bass, Balance, Auto volume, Surround sound adjustments can be set in this menu. (optional) needed factory installed.
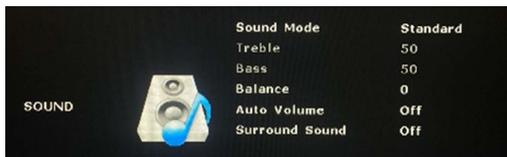
7.3   Time Settings

With this tab, sleep timer, auto sleep can be adjusted according to the desired adjustments. For Fortinge, the sleep timer must be in the off position.

7.4   Option Settings

Menu setting sare made from this tab.

- **OSD Language:** The desired language settings can be selected.
- **ECO Mode:** Reduces brightness and power consumption to save energy.
- **OSD Time:** Sets how long the on-screen display menu stays visible.
- **HDMI CEC:** Allows HDMI-connected devices to control each other.
- **Blue Screen:** The display color blues hould stay in the on position if desired.
- **Mirror:** Duplicates the screen image onto another display.
- **Input Source:** Selects the type of signal input.
- **Reset:** Restores all settings to factory defaults.

8   Installation Of The Product

8.1   Placing On The Work Place

The installation of the product in the final working area will be carried out by the customer.

Care must be taken, lifting points must be taken into consideration. Otherwise, the buyer will be responsible for the problems that may occur.

8.2   Assembly

The product, which is sent as a box, is assembled by the person to be performed by the authorized personnel of the customer and / or under the supervision of the person.

9   Technical Service

In case of malfunction and maintenance, the spare parts required by the customer will be delivered by the company within the deadline.

Interventions by people not authorized by the vendor within the warranty period will void the warranty terms.

Following the delivery of the product, in case of any failure other than the warranty period, the customer shall provide the service and repair service at the request of the firm in return for the fee.

10   Warranty Certificate

- Product Brand   : Fortinge
- Product Name   : PRO210-N
- Warranty Period   : 12 months after delivery

10.1   Warranty Conditions

- Faulty material used while production and any kind of malfunction due to faulty workmanship will be eliminated without any charge from the vendor.
- All kinds of breakage and defects that may occur during the transportation, loading and downloading of the products are not covered under the warranty.
- Failure, breakdown and loss of natural conditions and natural disasters where the products are placed by the customer are not covered under the warranty.
- Breakage and malfunctions resulting from improper use during operation of the products are not covered under the warranty.
- The manufacturer commits and guarantees to provide spare parts and/or service for 10 years.

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11   User Manual Delivery Report

Date: ……./……. /20…....

The User Manual of Fortinge PRO210-N has been delivered to the customer.

Upon recieval of this manual, the customer shall be deemed to have accepted that all information about the use of the device has been provided in its entirety.

On behalf of manufacturer
Deliverer

On behalf of buyer
Receiver

Name, Surname, Date
Signature

Name, Surname, Date
Signature