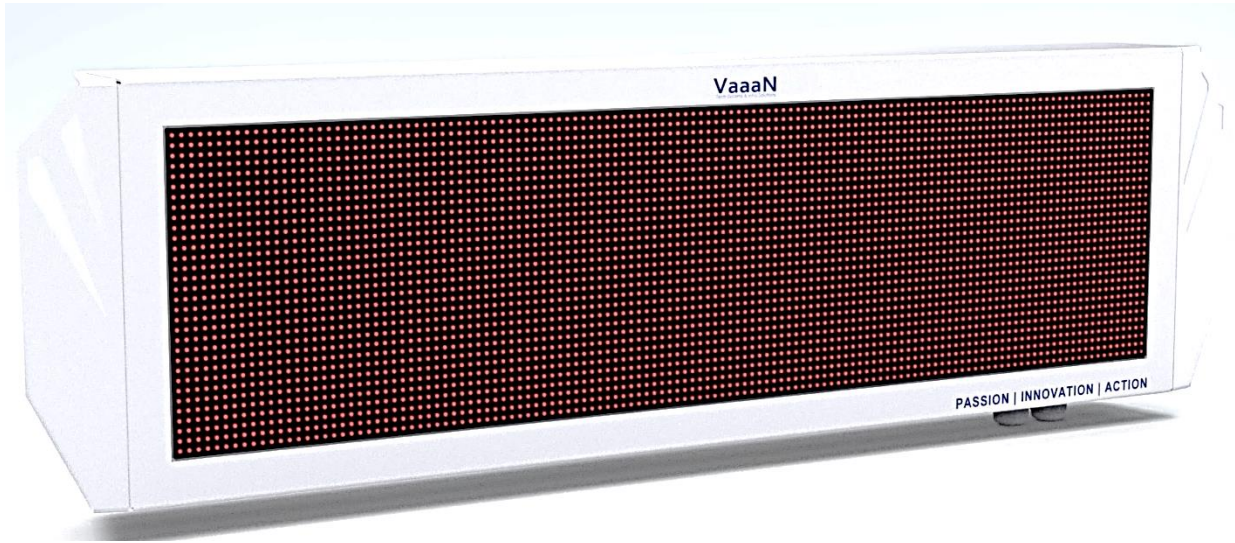


PUBLIC INFORMATION SYSTEM (PIS 1.0)

TECHNICAL DATASHEET

Public Information Systems are meant to display information relevant to a specific application. This variant of LED Display is tailored for use for multiple applications, for eg at Toll Plazas as User fare Display (UFD) for displaying the amount deducted, at Bus Depots or, Water Metro jetties for indicating passenger count during boarding / de-boarding, etc.

AT A GLANCE



Technical Specifications

Mechanical Dimensions	Specifications
Cabinet Size	690 mm (L) x 210 mm (H) x 80 mm (D) (Approx.)
Display Area	640mm (L) x 160 mm (H)
Character Height	150 mm Single line and 70 mm Dual Line
Line Matrix	16x64
Module Resolution	16x32 pixels
Number of Lines	2 Lines
Material	Mild Steel / Stainless Steel (304)
Pixel pitch	10 mm (V) x 10 mm (H)

LED Parameters	Specifications
Type of LED	DIP
Colour	Red or Amber

Villa-8, Block-II, Eros Garden, Charmwood Village, Surajkund Road, DELHI-NCR-121 009 (Faridabad) INDIA

Phone: +91-129-251 5050, 251 5051, E-mail: sales@vaaaninfra.com,

Web: www.vaaaninfra.com

LED Parameters	Specifications
Viewing Angle	120 all around

Electrical Parameter	Specifications
Operating Voltage	220 V, 1 phase, 50 Hz AC
Power consumption	40 watts at maximum display intensity
Protection	Short circuit, overload, over voltage, ESD

Functionality Parameter	Specifications/Description
Number of Side	Single side
Ambient Environment	Operating temperature: 0°C to +70°C
IP Protection Rating	IP 65
Certification	CE
Intensity of Display	In-built light sensor with continuously variable brightness control to enable the display intensity to change based on ambient light conditions – Optional component
Viewing distance	20 meters in daylight, 30 meters at Night.
Communication protocol	Over Ethernet or, RS-232
Updating of firmware	Locally via USB
Information displayed	Fixed, Scrolling and Flashing mode.
Language Support	2 languages; English, हिन्दी / as requested
Animation	Customized fonts and animations, as requested



PUBLIC INFORMATION SYSTEM (PIS 2.0)

TECHNICAL DATASHEET

Public Information Systems are meant to display information relevant to a specific application. This variant of LED Display is tailored for use for multiple applications, for eg at Toll Plazas as User fare Display (UFD) cum Stop/Go indication is to be displayed in a single unit; for displaying Passenger Count alongwith customized animations / graphics at Bus Depots or, Water Metro jetties, etc.

AT A GLANCE



Technical Specifications

Mechanical Dimensions	Specifications
Cabinet Size	800 mm (L) x 400 mm (H) x 81.5 mm (D) (Approx.)
Display Area	640mm (L) x 320 mm (H)
Character Height	150 mm - Large Font 70 mm - Small Font
Line Matrix	16×128
Module Resolution	32×64
Number of Lines	2
Material	Mild Steel / Stainless Steel (304)
Pixel pitch	10 mm (V) × 10 mm (H)

LED Parameters	Specifications
Type of LED	DIP
Colour	Red and Green
Viewing Angle	120°

Electrical Parameter	Specifications
Operating Voltage	220 V, 1 phase, 50 Hz AC
Power consumption	80 W at maximum display intensity
Protection	Short Circuit, Overload, Overvoltage, ESD

Functionality Parameter	Specifications/Description
Number of Side	Single Side
Ambient Environment	Operating temperature: 0°C to +70°C
IP Protection Rating	IP 65
Certification	CE
Intensity of Display	4500 Nits
Viewing distance	20 Meters – Day Light 30 Meters - Night
Communication protocol	Over Ethernet or, RS-232
Updating of firmware	Locally via USB
Information displayed	Static, Scrolling, Custom Bitmaps
Language Support	English and हिन्दी / as requested
Animation	Customized fonts and Animations, as requested



PUBLIC INFORMATION SYSTEM (PIS 2.1)

TECHNICAL DATASHEET

Public Information Systems are meant to display information relevant to a specific application. This variant of LED Display is tailored for use for multiple applications, for eg at Toll Plazas as User fare Display (UFD) cum Stop/Go indication is to be displayed in a single unit; for displaying Passenger Count alongwith customized animations / graphics at Bus Depots or, Water Metro jetties, etc. This variant has an inbuilt sensor which enables brightness to be automatically adjusted as per ambient conditions.

AT A GLANCE



Technical Specifications

Mechanical Dimensions	Specifications
Cabinet Size	800 mm (L) x 400 mm (H) x 81.5 mm (D) (Approx.)
Display Area	640 mm (L) x 320 mm (H)
Character Height	150 mm - Large Font 70 mm - Small Font
Line Matrix	16x128
Module Resolution	32x64
Number of Lines	2
Material	Mild Steel / Stainless Steel (304)
Pixel pitch	10mm (V) x 10mm (H)

LED Parameters	Specifications
Type of LED	DIP
Colour	Red and Green
Viewing Angle	120°

Electrical Parameter	Specifications
Operating Voltage	220 V, 1 phase, 50 Hz AC
Power consumption	80 W at maximum display intensity
Protection	Short Circuit, Overload, Overvoltage, ESD

Functionality Parameter	Specifications/Description
Number of Side	Single Side
Ambient Environment	Operating temperature: 0°C to +70°C
IP Protection Rating	IP 65
Certification	CE
Intensity of Display	In-built ambient light sensor to adjust Display brightness according to ambient lighting condition, full brightness 4500 Nits in Day Light
Viewing distance	20 Meters – Day Light 30 Meters - Night
Communication protocol	Over Ethernet or, RS232
Updating of firmware	Locally via USB
Information displayed	Static, Scrolling, Custom Bitmaps
Language Support	English and हिन्दी / as requested
Animation	Customized fonts and Animations, as requested

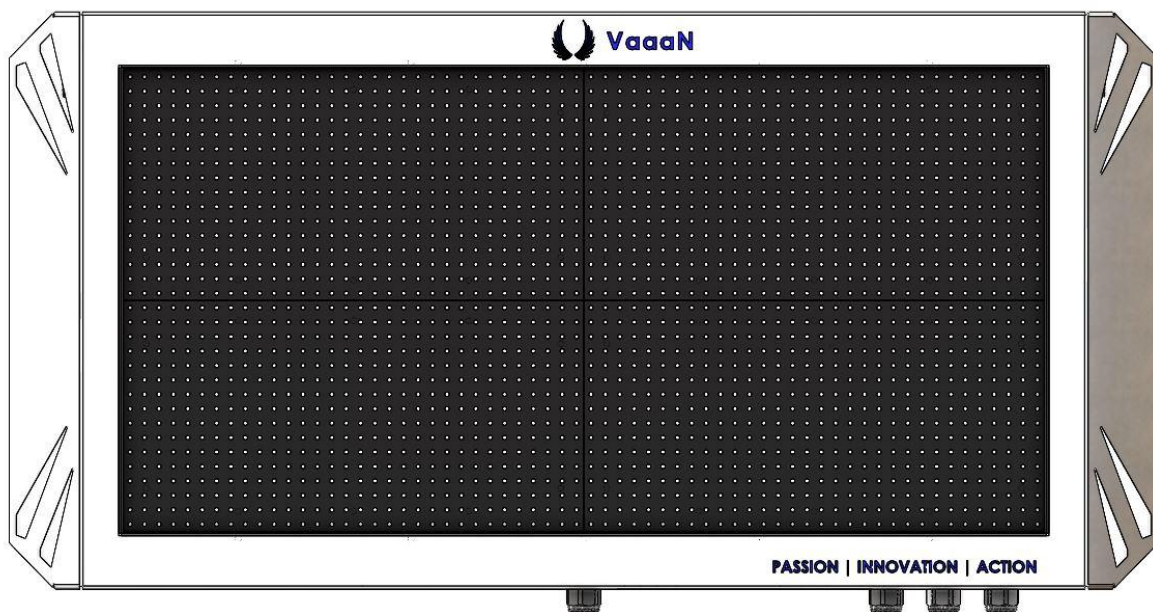


PUBLIC INFORMATION SYSTEM (PIS 2.2)

TECHNICAL DATASHEET

Public Information Systems are meant to display information relevant to a specific application. This variant of LED Display is tailored for use for multiple applications, for e.g., at Toll Plazas as User fare Display (UFD) cum Stop/Go indication is to be displayed in a single unit; for displaying Passenger Count along with customized animations / graphics at Bus Depots or, Water Metro jetties, etc. This variant has an inbuilt sensor which enables brightness to be automatically adjusted as per ambient conditions.

AT A GLANCE



Technical Specifications

Mechanical Dimensions	Specifications
Cabinet Size	800 mm (L) x 400 mm (H) x 81.5 mm (D) (Approx.)
Display Area	640 mm (L) x 320 mm (H)
Character Height	150 mm - Large Font 70 mm - Small Font
Line Matrix	16x128
Module Resolution	32x64
Number of Lines	2
Material	Mild Steel / Stainless Steel (304)
Pixel pitch	10mm (V) x 10mm (H)

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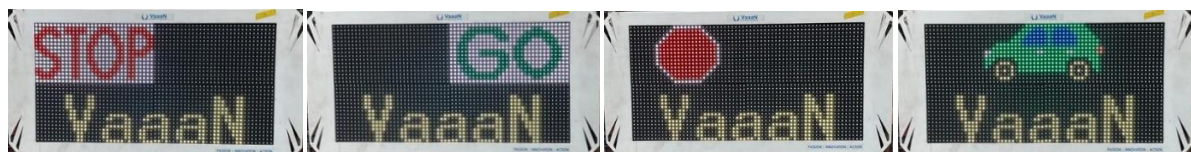
Phone: +91-129-251 5050, 251 5051, E-mail: sales@vaaaninfra.com,

Web: www.vaaaninfra.com

LED Parameters	Specifications
Type of LED	SMD
Colour	RGB
Viewing Angle	120°

Electrical Parameter	Specifications
Operating Voltage	220 V, 1 phase, 50 Hz AC
Power consumption	80 W at maximum display intensity
Protection	Short Circuit, Overload, Overvoltage, ESD

Functionality Parameter	Specifications/Description
Number of Side	Single Side
Ambient Environment	Operating temperature: 0°C to +70°C
IP Protection Rating	IP 65
Certification	CE
Intensity of Display	In-built ambient light sensor to adjust Display brightness according to ambient lighting condition, full brightness 8500 Nits in Day Light (Optional)
Viewing distance	20 Meters – Day Light 30 Meters - Night
Communication protocol	Over Ethernet
Updating of firmware	Remotely over Ethernet
Information displayed	Static, Scrolling, Custom Bitmaps
Language Support	English
Animation	Customized fonts and Animations, as requested



PUBLIC INFORMATION SYSTEM (PIS 3.0)

TECHNICAL DATASHEET

Public Information Systems are meant to display information relevant to a specific application. This variant of LED Display is tailored for use for multiple applications, for eg at Bus Shelters for displaying route information of buses, capacities, arrival of next bus, multimodal transport information; for displaying Passenger Count alongwith customized animations / graphics at Bus Depots or, Water Metro jetties etc.

AT A GLANCE



Technical Specifications

Mechanical Dimensions	Specifications
Cabinet Size	1198 mm (L) x 430 mm (H) x 85 mm (D) (Approx.)
Display Area	960 mm (L) x 320 mm (H)
Character Height	150 mm - Large Font 70 mm - Small Font
Line Matrix	16×192
Module Resolution	32×96
Number of Lines	4
Material	Mild Steel
Pixel pitch	10mm (V) × 10mm (H)

LED Parameters	Specifications
Type of LED	DIP
Colour	Amber
Viewing Angle	120°

Electrical Parameter	Specifications
Operating Voltage	220 V, 1 phase, 50 Hz AC
Power consumption	120 W at maximum display intensity
Protection	Short Circuit, Overload, Overvoltage, ESD

Functionality Parameter	Specifications/Description
Number of Side	Single Side
Ambient Environment	Operating temperature: 0°C to +70°C
IP Protection Rating	IP 65
Certification	CE
Intensity of Display	In-built ambient light sensor to adjust Display brightness according to ambient lighting condition, full brightness 4500 Nits in Day Light
Viewing distance	20 Meters – Day Light 30 Meters - Night
Communication protocol	Over Ethernet or, RS232
Updating of firmware	Locally via USB
Information displayed	Static, Scrolling, Custom Bitmaps
Language Support	English and हिन्दी / as requested
Animation	Customized fonts and Animations, as requested



PUBLIC INFORMATION SYSTEM (PIS 4.0)

SPEED DISPLAY

TECHNICAL DATASHEET

Public Information Systems are meant to display information relevant to a specific application. This variant of multi-colour LED Display is tailored for use for multiple applications, for eg for displaying detected speed on highways and tunnels; for displaying variable Speed Limit on Highways and tunnels; etc.

AT A GLANCE



Technical Specifications

Mechanical Dimensions	Specifications
Cabinet Size	750 mm (L) x 850 mm (H) x 110 mm (D) (Approx.)
Display Area	570 mm (L) x 576 mm (H)
Weight (without mounting)	≤16 kgs
Character Height	72 mm - Small Font 132 mm - Medium Font 360 mm - Large Font
Line Matrix	96×96
Module Resolution	96×96
Number of Lines	3
Material	Mild Steel / Aluminium
Pixel pitch	6 mm (V) × 6 mm (H)

LED Parameters

Specifications

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Phone: +91-129-251 5050, 251 5051, E-mail: sales@vaaaninfra.com,

Web: www.vaaaninfra.com

Type of LED	SMD
Colour	RGB
Viewing Angle	120°

Electrical Parameter	Specifications
Operating Voltage	220 V, 1 phase, 50 Hz AC
Power consumption	120 W at maximum brightness
Protection	Short Circuit, Overload, Overvoltage, ESD

Functionality Parameter	Specifications/Description
Number of Side	Single Side
Ambient Environment	Operating temperature: -20°C to +65°C
IP Protection Rating	Front: IP65, Rear: IP54
Certification	CE
Intensity of Display	In-built ambient light sensor to adjust Display brightness according to ambient lighting condition.
Viewing distance	≤120 meters
Communication protocol	Over Ethernet
Updating of firmware	Remotely over Ethernet
Information displayed	Static, Flashing
Language Support	English

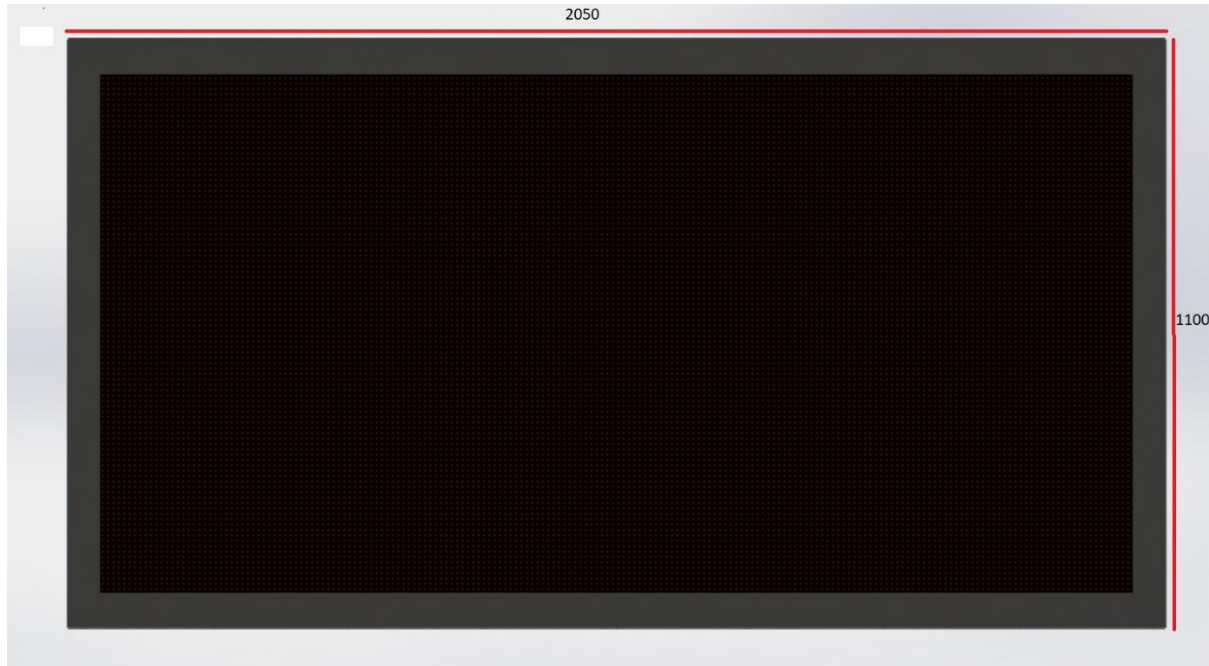


PUBLIC INFORMATION SYSTEM (PIS 5.2.1)

TECHNICAL DATASHEET

Public Information Systems are meant to display information relevant to a specific application. This variant of multi-colour LED Display is tailored for displaying meteorological information.

AT A GLANCE



Technical Details:

SNo	Description	Specification
1.	Light Source	High Power LED's
2.	Housing	Modular design, powder-coated profiles made of Mild Steel.
3.	Protection	Class IP 65 Front Class IP 54 Back
4.	Operating Temperature Range	-15°C to +65°C
5.	Humidity Range	20 – 95% relative humidity
6.	Controller	Embedded controller designed for industrial temperature range: -20 to +85 °C Integrated fast access.
7.	Interfaces	Ethernet (TCP/IP)
8.	Mounting options	Cantilever and other variants on request
9.	Protocol	NTCIP Ver 3

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Display Specifications

SNo	Description	Specification
1.	Pixel Pitch	Vertical 10 mm and Horizontal 10 mm
2.	LED Type	SMD
3.	Pixel Configuration	Full Colour (RGB)
4.	Display Sides	1 (One Sided)
5.	Colour Depth	>12 bit per colour
6.	Display Dimensions (L x H)	1920 x 960 mm
7.	Visible distance	≥50m
9.	Luminance class/Ratio	As per EN 12966: Colour class - C2, Luminance class - L3, Contrast Ration - R3, Beamwidth - B6
10.	Display Language	English, Hindi and Regional Language.
11.	Information	Support text & Symbols
12.	Display Effects	Static & scrolling
13.	Frame rate	60 Hz
14.	Refresh rate	>500 Hz
15.	Brightness control	Brightness control based on <ul style="list-style-type: none"> • Automatic using Ambient light sensor • Manually through control room application
16.	Character Height/No. of Lines/No. of characters per line	200 mm, 4 lines, 10 character per line Meteorological Icons

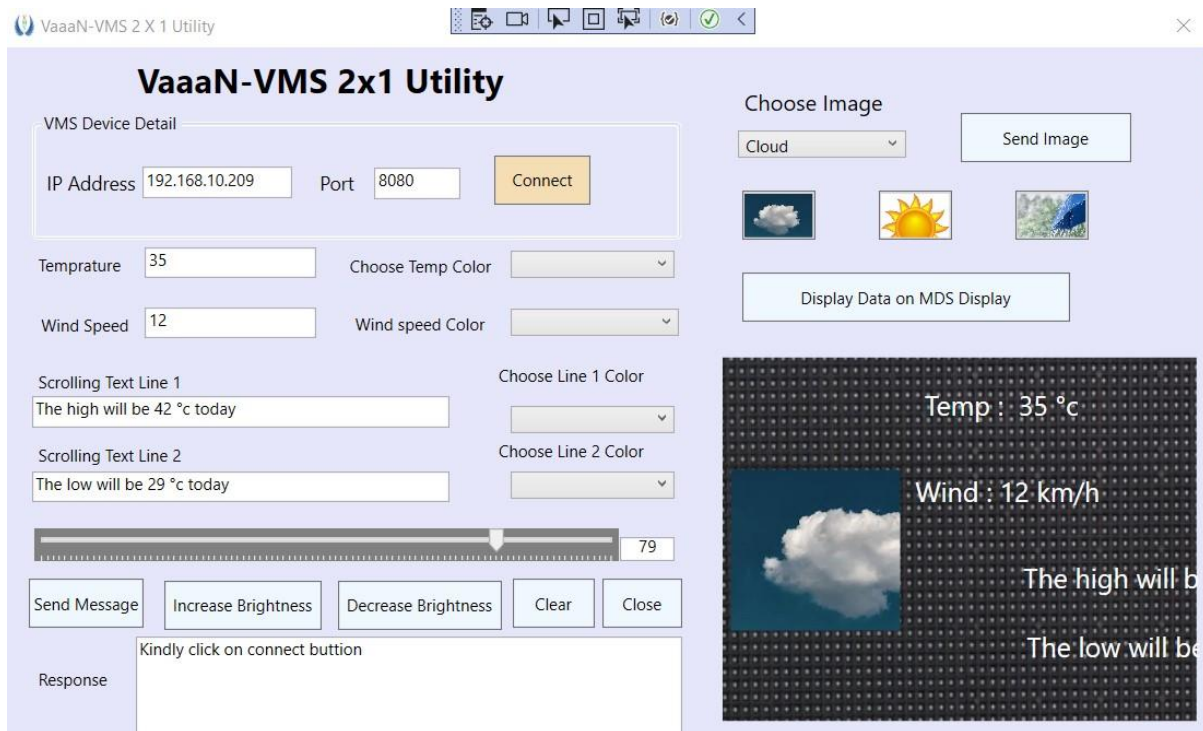
Mechanical Specifications

SNo	Description	Specification
1.	Outer Dimension (L x H X D)	2050 mm x 1100 mm x 220 mm
3.	Enclosure Material	Mild Steel
4.	Enclosure Colour	Black Powder coated
5.	Cooling System	Temperature sensor based automatic air circulation system
6.	Weight	< 100 Kgs

Electrical & Network Interface Specifications

SNo	Description	Specification
1.	Operating Power Supply	(170-260) V AC Single Phase, Neutral, ground
2.	Communication Interface	<ul style="list-style-type: none"> • 1 x RJ45 100 Mbps for Central connectivity • 1 x RJ45 100 Mbps for local operating console (Laptop)
3.	Power Consumption (approx.)	1.5 KW Peak consumption (All LEDs ON) 0.3 KW typical (Normal condition)
4.	Protection	Surge Protection, Over Voltage, Over Current

Utility Snapshot



The screenshot shows the Vaaan-VMS 2x1 Utility web interface. The main panel is titled "Vaaan-VMS 2x1 Utility" and contains the following sections:

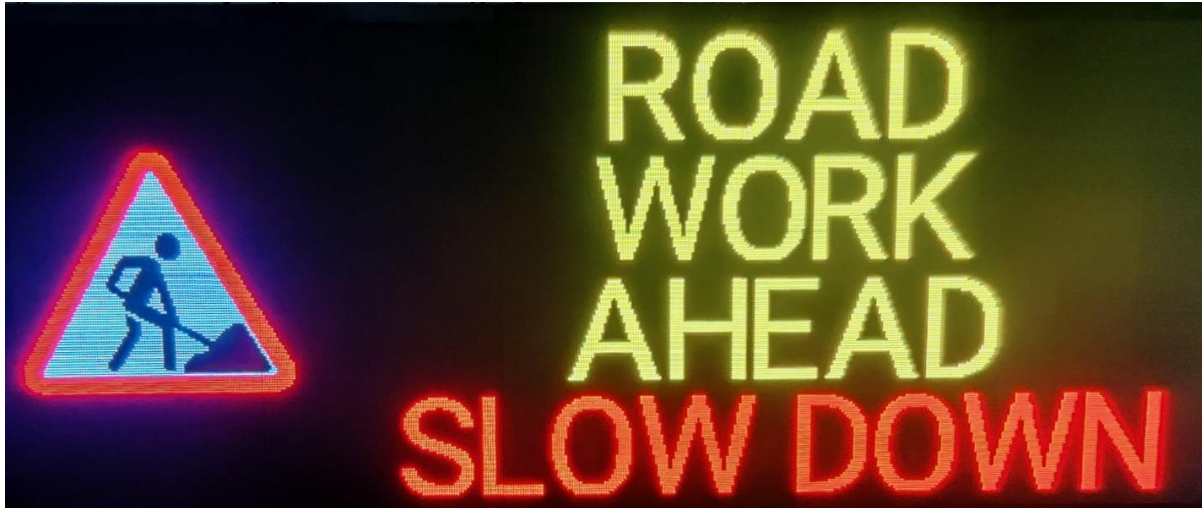
- VMS Device Detail:** Includes input fields for IP Address (192.168.10.209) and Port (8080), and a "Connect" button.
- Temperature and Wind Speed:** Input fields for Temperature (35) and Wind Speed (12), each with a "Choose Temp Color" and "Wind speed Color" dropdown menu.
- Scrolling Text Line 1 and 2:** Input fields for weather forecasts (e.g., "The high will be 42 °c today") and "Choose Line 1 Color" / "Choose Line 2 Color" dropdown menus.
- Brightness Control:** A slider bar set to 79, with "Increase Brightness", "Decrease Brightness", "Clear", and "Close" buttons.
- Message and Response:** "Send Message" button, a "Response" text area containing "Kindly click on connect button", and "Clear" and "Close" buttons.
- Choose Image:** A dropdown menu set to "Cloud", a "Send Image" button, and three image thumbnails (cloud, sun, bluebird).
- Display Data on MDS Display:** A button to display the current data on the MDS display.
- MDS Display Preview:** A large dark area showing the data as it would appear on the MDS display, including "Temp : 35 °c", "Wind : 12 km/h", and weather forecast text.

PUBLIC INFORMATION SYSTEM (PIS 5.30)

TECHNICAL DATASHEET

Public Information System 5.30 – Variable Message Sign (VMS) is used to inform, warn, and guide the motorists on highways, expressways, and arterial roads of cities by displaying route / rerouting information, warnings (accidents, congestions, etc), and other critical information depending upon traffic situation.

AT A GLANCE



Technical Details:

SNo	Description	Specification
1.	Light Source	High Power LED's
2.	Housing	Modular design principle in sea-water-proof, powder-coated profiles made of Mild Steel / Aluminium
3.	Protection	Class IP 65 Front Class IP 54 Back
4.	Operating Temperature Range	-15°C to +65°C
5.	Humidity Range	20 – 95% relative humidity
6.	Controller	Embedded controller designed for industrial temperature range: -20 to +85 °C Integrated fast access.
7.	Communication Interface	Ethernet (TCP/IP), 4G (optional)
8.	Mounting options	Cantilever and C-rails pipe clamps and other variants on request
9.	Protocol	NTCIP Ver 3

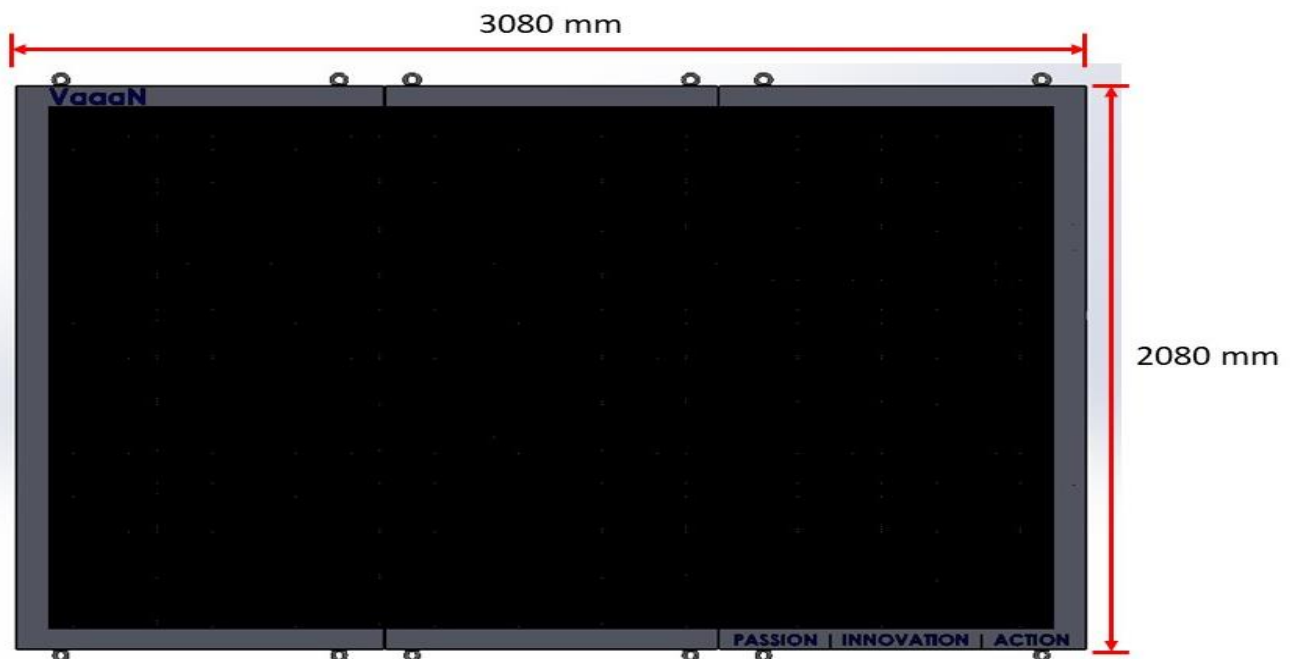


Vaaan

Tech Systems & Infra Solutions

Display Specifications

SNo	Description	Specification
1.	Pixel Pitch	Vertical 10 mm and Horizontal 10 mm
2.	LED Type	SMD
3.	Pixel Configuration	Full Colour (RGB)
4.	Display Sides	1 (One Sided)
5.	Colour Depth	>12 bit per colour
6.	Display Dimensions (L x H)	2880 x 1920 mm
7.	Visible distance	≥300m
9.	Luminance class/Ratio	As per EN 12966: Colour class - C2, Luminance class - L3, Contrast Ration - R3, Beamwidth - B6
10.	Display Language	English, Hindi and Regional Language.
11.	Information	Support text & Symbols
12.	Display Effects	Static & scrolling
13.	Frame rate	60 Hz
14.	Refresh rate	>500 Hz
15.	Brightness control	Brightness control based on <ul style="list-style-type: none">• Automatic using Ambient light sensor• Manually through control room application
16.	Character Height, No. of Lines, No. of characters per line	200 mm/ 8 lines/ 26 character per line 400 mm/ 4 line /13 character per line



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Web: www.vaaaninfra.com

Mechanical Specifications

SNo	Description	Specification
1.	Outer Dimension (L x H X D)	3080 mm x 2080 mm x 250 mm
3.	Enclosure Material	Mild Steel / Aluminium
4.	Enclosure Colour	Black Powder coated
5.	Cooling System	Temperature sensor based automatic air circulation system
6.	Weight	< 225 Kgs

Electrical & Network Interface Specifications

SNo	Description	Specification
1.	Operating Power Supply	(170-260) V AC Single Phase, Neutral, ground
2.	Communication Interface	<ul style="list-style-type: none"> • 1 x RJ45 100 Mbps for Central connectivity • 1 x RJ45 100 Mbps for local operating console (Laptop) • 4G (Optional)
3.	Power Consumption (approx.)	5.4 KW Peak consumption (All LEDs ON) 1 KW typical (Normal condition)
4.	Protection	Surge Protection, Over Voltage, Over Current



PUBLIC INFORMATION SYSTEM (PIS 5.5.1)

TECHNICAL DATASHEET

Public Information System 5.5.1 – Variable Message Sign (VMS) is used to inform, warn, and guide the motorists on highways, expressways, and arterial roads of cities by displaying route /rerouting information, warnings (accidents, congestions), and other critical information depending upon traffic situation.

AT A GLANCE



Technical Details:

SNo	Description	Specification
1.	Light Source	High Power LED's
2.	Housing	Modular design principle in sea-water-proof, powder-coated profiles made of Mild Steel / Aluminium
3.	Protection	Class IP 65 Front Class IP 54 Back
4.	Operating Temperature Range	-15°C to +65°C
5.	Humidity Range	20 – 95% relative humidity
6.	Controller	Embedded controller designed for industrial temperature range: -20 to +85 °C Integrated fast access.
7.	Interfaces	Ethernet (TCP/IP), 4G (optional)
8.	Mounting options	Cantilever and C-rails pipe clamps and other variants on request
9.	Protocol	NTCIP Ver 3

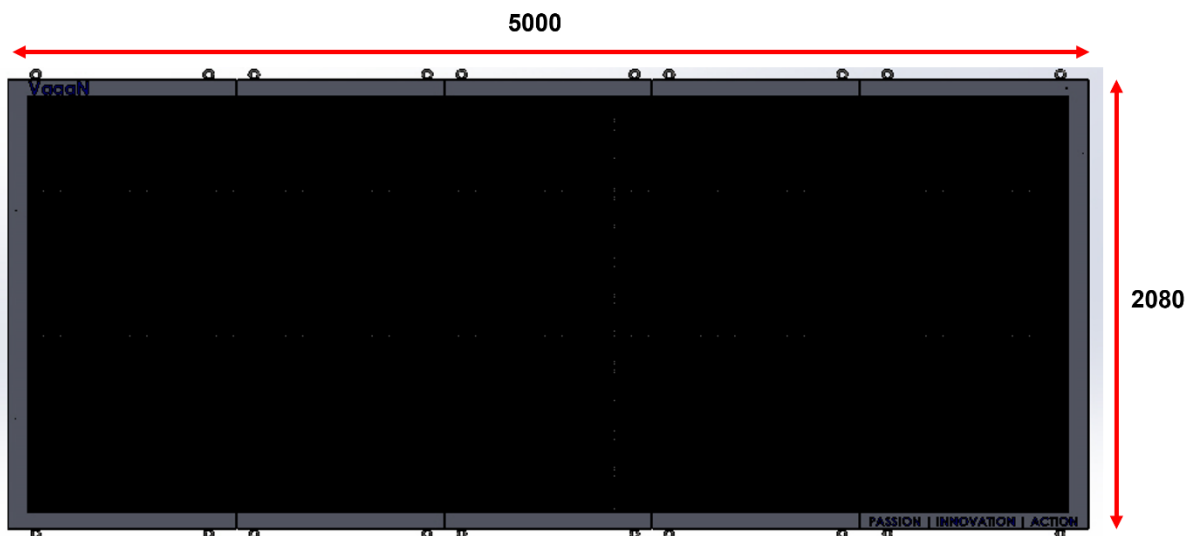
Villa-8, Block-II, Eros Garden, Charmwood Village, Surajkund Road, DELHI-NCR-121 009 (Faridabad) INDIA

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Web: www.vaaaninfra.com

Display Specifications

SNo	Description	Specification
1.	Pixel Pitch	Vertical 10 mm and Horizontal 10 mm
2.	LED Type	SMD
3.	Pixel Configuration	Full Colour (RGB)
4.	Display Sides	1 (One Sided)
5.	Colour Depth	>12 bit per colour
6.	Display Dimensions (L x H)	4800 x 1920 mm
7.	Visible distance	≥300m
9.	Luminance class/Ratio	As per EN 12966: Colour class - C2, Luminance class - L3, Contrast Ration - R3, Beamwidth - B6
10.	Display Language	English, Hindi and Regional Language.
11.	Information	Support text & Symbols
12.	Display Effects	Static & scrolling
13.	Frame rate	60 Hz
14.	Refresh rate	>500 Hz
15.	Brightness control	Brightness control based on <ul style="list-style-type: none"> • Automatic using Ambient light sensor • Manually through control room application
16.	Character Height/No. of Lines/No. of characters per line	200 mm/ 8 lines/ 26 character per line 400 mm/ 4 line /13 character per line



Mechanical Specifications

SNo	Description	Specification
1.	Outer Dimension (L x H X D)	5000 mm x 2080 mm x 250 mm
3.	Enclosure Material	Mild Steel / Aluminium
4.	Enclosure Colour	Black Powder coated
5.	Cooling System	Temperature sensor based automatic air circulation system
6.	Weight	< 350 Kgs

Electrical & Network Interface Specifications

SNo	Description	Specification
1.	Operating Power Supply	(170-260) V AC Single Phase, Neutral, ground
2.	Communication Interface	<ul style="list-style-type: none"> • 1 x RJ45 100 Mbps for Central connectivity • 1 x RJ45 100 Mbps for local operating console (Laptop) • 4G (Optional)
3.	Power Consumption (approx.)	10 KW Peak consumption (All LEDs ON) 1.5 KW typical (Normal condition)
4.	Protection	Surge Protection, Over Voltage, Over Current

