

TRANSFORMING THE FUTURE OF DISPLAY SOLUTIONS

Online Instruments Unveils one of India's Most Advanced AV Manufacturing Facility in Bangalore

Smita Rai, Content Head of AV-ICN Expo Magazine, was given a comprehensive tour of the Online Instruments factory at Dabaspete by **Siddalingaswamy R**, Assistant Plant Manager at the Online Instruments IFPD Manufacturing Plant, showcasing the company's commitment to innovation and excellence. This exclusive tour provided a firsthand look at the cutting-edge technology, rigorous quality control measures, and innovative manufacturing processes that Online Instruments has adopted in this new facility.

In a significant milestone, Online Instruments, one of the leading providers of AV solutions in India inaugurated its new fully automated CKD Interactive Displays (IFPD) manufacturing plant in August 2024, in Dabaspete, Bengaluru, spread across three acres in the city. This cutting-edge facility is designed to handle the

entire production process of interactive display panels, kiosks, outdoor LEDs and accessories, encompassing assembly, testing, packaging, and sales & service. The comprehensive setup enables end-to-end manufacturing, incorporating every stage of the process, from start to finish.

After years of successfully providing display solutions through assembled products



Online Instruments' conference room showcases latest 86-inch interactive display



Smita Rai, Content Head of AV-ICN Expo Magazine and Siddalingaswamy R, Online Instruments at its manufacturing plant in Bengaluru

from China, the company is now poised to make a strategic shift. Their goal is to establish a strong local presence, catering to the government sector and beyond, with innovative, Made-in-India technologies that align with the country's vision of self-reliance.

With this new facility, Online Instruments aims to provide top-notch technologies to the Indian pro AV market. The company's diverse product range of cutting-edge displays, offer superior image quality, touch sensitivity, and durability and will benefit educational institutions, government orga-

nizations, R&D labs, and more. The facility is equipped with fully automated robotic technology, enabling the production of almost 400 Interactive Flat Panel Displays (IFPDs) per day.

INSIDE ONLINE INSTRUMENTS' STATE-OF-THE-ART MANUFACTURING FACILITY

Smita Rai, Content Head of AV-ICN Expo Magazine had the opportunity to tour the state-of-the-art facility, gaining a firsthand look at the latest advancements in the



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manufacturing unit.

Online Instruments' newly inaugurated factory is a testament to the company's commitment to innovation and excellence. The cutting-edge facility boasts a sleek and modern design, with a sprawling layout that seamlessly integrates state-of-the-art manufacturing technologies.

The facility has a total area of 1,20,000 sq. ft., including the ground floor office and warehouse, ensuring efficient production, manufacturing, and delivery of the LED displays.

The impressive external structure of the factory not only reflected the company's dedication to quality and precision but also served as a symbol of its ambition to revolutionize the display solutions industry with two high-capacity assembly lines, staffed by a team of highly skilled workers, working

efficiently to ensure seamless production.

The ground floor of the building welcomed visitors to a spacious lobby area showcasing the products, complemented by modern offices, staff cubicles, and an expansive conference room. Additionally, a vibrant and welcoming pantry provides a comfortable space for employees to relax and enjoy their meals.

The conference room showcased Online Instruments' latest 86-inch interactive display, a shatter-resistant masterpiece that combined sleek design with unparalleled durability. This cutting-edge Interactive Flat Panel Display (IFPD) enabled effortless interaction, allowing users to write, erase, and move objects with precision. Ideal for collaborative environments, the IFPD supports an impressive 40 touch points and 20 simultaneous writing points, maximizing

group productivity. Additionally, seamless screen sharing capabilities allow for effortless content export.

Specifically designed with the education sector in mind, this innovative display enables teachers to create engaging lessons, share content, and track student progress. A unique barcode feature allows teachers to instantly save and share lesson materials with students, making it an invaluable tool for educators.

The fully automated production line at Online Instruments' display manufacturing facility is equipped with 8 to 9 robots, enabling high-speed productivity.

The displays manufactured at the facility undergo rigorous Engineering, Safety, and Testing (EST) protocols to ensure they meet the highest standards of quality and performance.

What sets their displays apart from others is the precision and accuracy enabled by their robotic manufacturing process, which ensures precise fitment placement and supports multiple touch points, allowing for seamless and intuitive user interaction.

A specialized water supply system is integrated into the cleaning process, ensuring a fully automated and efficient cleaning cycle. Once cleaned, the display screens emerge crystal clear, and to maintain their pristine condition, they are designed to be handled without direct contact.

The robotic manufacturing line seamlessly positions the screens onto respective pallets. The panels are then transferred to the aging chamber, which can accommodate up to 42 units at a time. Every two hours, the panels undergo rigorous testing at a temperature of 45 degrees Celsius, simulating extreme conditions.

Once testing is complete, the pallet is automatically returned via the conveyor system, making way for the next batch of panels to undergo the same rigorous testing and quality assurance process.

This additional testing phase involves a comprehensive evaluation of all critical components, including the motherboard, SMPS board, assembly, and speaker. We maintain exceptionally high standards and refuse to compromise on quality.

The factory features a series of display dashboards that provide real-time visibility into the entire manufacturing and testing process, offering a comprehensive overview of production metrics, upcoming plans, and previous and ongoing outputs. This integrated system, controlled by Online Instruments' system, enables seamless monitoring and

control of every stage of production.

At the time of Rai's visit, the factory was poised to commence full-scale operations, with testing in its final stages. Before initiating full-scale production and operation, Online Instruments wanted to make sure that the factory underwent a meticulous 100% quality and safety check. Given the intricate nature of the materials and processes involved, the automation team meticulously fine-tuned every detail to ensure absolute accuracy. Since the production line is designed to run continuously without interruption, it was crucial for the company to guarantee flawless quality and safety standards from the outset.

The company has also implemented a robust after-sales support system. "With the aim to keep our after-sales services up-to-the-mark, we have built sales and services offices in every area around the country," said **Pankaj Bellad**, Business Head at LOGIC.

CONSOLIDATION AND EXPANSION: A NEW CHAPTER FOR ONLINE INSTRUMENTS

For almost three decades, Online Instruments has had a stalwart presence in Whitefield, manufacturing an impressive array of AV, display, and lighting solutions.

In a strategic move to consolidate their operations, the company is relocating this facility to a brand-new site adjacent to their state-of-the-art factory, with the majority of their seasoned staff making the transition.

With the inauguration of its state-of-the-art manufacturing facility, Online Instruments has reaffirmed its commitment to delivering top-notch AV solutions to the Indian market. By leveraging cutting-edge technology, innovative manufacturing processes, and a robust quality control framework, the company is poised to revolutionize the Indian pro AV market and cement its position as a leading provider of display solutions.
