

SKYNET

Big. Bold. Brilliant.



Revolutionize your message with SkyNet™ outdoor digital display technology from ADTMedia.

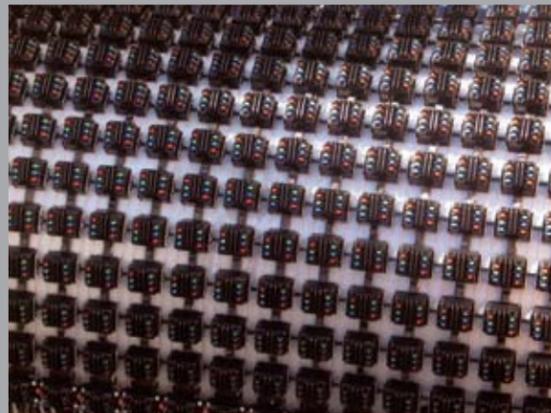
Unlike bulky, cumbersome fixed-frames and the limited size of traditional LED displays, SkyNet offers a bigger, lighter, and brighter display that will dazzle viewers from distances far and wide. Using ADTMedia's patented transparent mesh technology, SkyNet is flexible enough to wrap around the corners of a building and large enough to dress an unprecedented twenty stories or more. Plus, SkyNet is bright enough to display brilliant images and video in full sunlight. Transform the way you deliver your message now with SkyNet digital displays.


adtmedia®



Photo: Kjetil Ree

Big: Magnifies your message.



Flexible: Wraps entire buildings.



Bright: Dazzles in daylight.

DAYLIGHT BRIGHT

SkyNet utilizes high intensity light emitting diodes (LEDs) to create modules, or pixels, which produce a full spectrum of color that can be clearly viewed in full sunlight.

PATENTED LIGHTWEIGHT DESIGN

Less than three centimeters thick, SkyNet's proprietary lightweight mesh technology is organized into an array of rows and columns. Its distributed load minimizes the amount of structural engineering required to install the display, unlike traditional fixed-frame displays.

FLEXIBLE DISPLAY

SkyNet's proprietary mesh technology pliantly wraps the corners of buildings and can easily envelop an entire building with high impact graphics and video.

SIZE MATTERS

Messages stand out on a scale previously inconceivable with the unlimited size of SkyNet displays. Each display is assembled to any height and width to create a custom display to fit your specific needs.

SO TRANSPARENT

With ADTI's revolutionary mesh design, SkyNet provides 60% transparency and allows natural light and ventilation to pass through the display. Those inside the building can still see out the windows.

DISCRETE CONTROLS

All electronics are concealed in small enclosures that are built into the top or the bottom of the SkyNet display – a refreshing change from the obtrusive cabinets necessary for traditional outdoor displays. The enclosures may also be located in a remote location for further discretion.

BRAVE THE ELEMENTS

Designed to withstand extreme temperatures and operate at full luminous intensity at up to 115° Fahrenheit, SkyNet weathers the coldest of winter climates and the hottest of desert climates. Its patented mesh structure minimizes wind loading and it withstands driving rain, heavy snow, ice, and pressure washing.

INTEGRATION AND DESIGN SUPPORT

Every installation of SkyNet is unique, so ADTImedia assists architects, lighting designers, and content developers to design the most dramatic visual display possible. Once a design has been completed, ADTImedia supervises the installation, monitors and manages the health of the display, and provides the maintenance services necessary to ensure that the visual impact of the installation is as powerful on the 2,000th day as it is on Day One.

ELIMINATING DOWNTIME

Power and data redundancy are built into SkyNet display technology to ensure 99.9% uptime. Its power supply architecture relies upon a modular n+2 redundancy scheme, similar in concept to a server's RAID hard drive array. Equally critical is the redundancy of the data paths that provide the signal information to each module within the display. SkyNet's revolutionary mesh architecture connects each segment of 16 modules with quad-redundant paths. These redundancies enable the SkyNet display to remain fully illuminated even after sustaining substantial damage.

ADVANCED MONITORING & DIAGNOSTICS

The working state of every system, data connection, and module within the SkyNet display is constantly monitored for potential issues so they can be resolved before a loss of illumination ever occurs. Abnormal events are logged and reported via cellular networks or an existing LAN installation. Integration with existing SNMP management platforms, such as Hewlett Packard's OpenView Network Node Manager, is seamless.

CONTENT CREATION

SkyNet supports a broad range of content requirements including simple lighting effects, graphics, text, video, and owner-provided content such as broadcast feeds. Using the embedded computing platform, content may be digitally created, automatically downloaded, and scheduled to appear. The integrated high-performance video processor enables content manipulation to precisely fit the size and shape of the SkyNet display. ADTImedia's content experts provide guidance in the creation of digital content to maximize the potential of the SkyNet display, while addressing advertiser requirements or municipality regulations.

EASY SERVICING

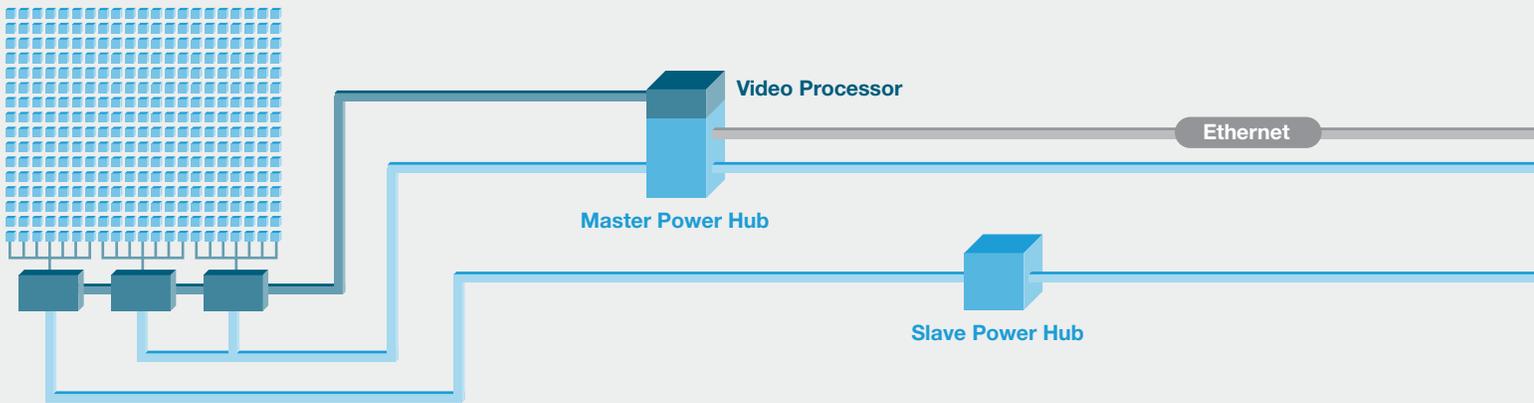
Servicing a system attached to the outside of a multi-story building is no small task. However, SkyNet's modular servicing methodology minimizes challenges and maximizes safety. Each module can be removed from the mesh within a matter of minutes, and may be quickly and easily replaced. Once in place, the new module is automatically identified within the mesh and is calibrated to match the others that surround it, ensuring the same visual uniformity experienced at the time of installation.

MADE IN THE USA

SkyNet is designed and manufactured in the United States by ADTImedia, which allows for turn-key customization for highly specific applications. Domestic manufacturing and assembly assures swift delivery.

SAMPLE CONFIGURATIONS

Width	Height	Weight	Power Requirements
8M	4.8M	732 kg	16 W
16M	9.6M	2,830 kg	65 W
24M	16M	6,980 kg	162 W
32M	24 M	13,861kg	324 W



PHYSICAL SPECS

Transparency Factor: 60%
Module Pitch: 50mm
Visual Pitch: 25mm
LED Configuration: 2x red, 2x green, 2x blue
Resolution: 20 x 20 modules/sq. M
Weight: 29.76 kg/sq. M
Cooling: Thermal conduction (Fanless)
Life Expectancy: 100,000 hours

OPTICAL SPECS

Illumination: > 6000 NIT (D6500 calibration)
LED Type: 30 x 70° oval
Module offset: 10° down-angle
Upward Light Output Ratio: < 5% (ULOR_{inst})
Viewing Angle: 60° H x 120° V (Half-intensity viewing cone)
Color Temperature: 3200 - 9300° K, Variable
Uniformity: > 98%
Contrast Ratio: 5000:1

MECHANICAL SPECS

Module Dimensions: 34.5mm H x 39mm W x 37mm D
Display Width: 0.8M - 32M
Max "Tiled" Displays: Unlimited

POWER SPECS

Min Consumption: < 20W / sq. M
Nom Consumption: 150W / sq. M
Max Consumption: 384W / sq. M

ENVIRONMENTAL SPECS

Operating Temp: -35° ~ 45° C
Storage Temp: -35° ~ 80° C
Relative Humidity: 100% at 40° C

CERTIFICATIONS & COMPLIANCE

Safety: UL, CE, CSA, NEMA (6), IEC (IP67)
Emissions: IEEE / ANSI, FCC (Class A)
Manufacturing: RoHS
Light Pollution: CIE (150:2003)

POWER HUB SPECS

PHYSICAL SPECS

Enclosure Type: Outdoor NEMA 4
Mounting Configuration: Pad or Wall Mount
Dimensions: 158cm H x 102cm W x 61cm D
Weight: 340kg (Master), 331kg (Slave)
MTBF: 350,000 Hours
Cooling: Outdoor NEMA 4 Closed Loop System

POWER SPECS

Input Voltage: 480 VAC, 3 Phase
Input Max Current: 36.5A / Phase

PROCESSOR SPECS

EMBEDDED COMPUTER SPECS

Operating System: Microsoft® Windows XP Professional
Processor: Intel® LV Pentium M 1.4 GHz
Software Applications: ADTMedia® SkyNet™ Diagnostics, Monitoring Agent & Content Client

SOURCE INPUT SPECS

Color Standards: NTSC, PAL, PAL-M, PAL-N, SECAM
Max RGB Input Resolution: 2048x2048 Pixels
Color Resolution: 24-bit (16.8 Million Colors)
Digital Sampling: 24-bit, 4:4:4 format
Connections: 1x Analog (HD-15 Female), 1x DVI-D (29-Pin Female), 2x Composite Video (BNC), 2x Y/C (4-Pin Mini-DIN), 1x Component YUV / YPbPr (3x BNC)

SYSTEM MANAGEMENT

Interface: 10/100Base-T 802.3 Ethernet
Supported Protocols: TCP/IP, SNMP v3