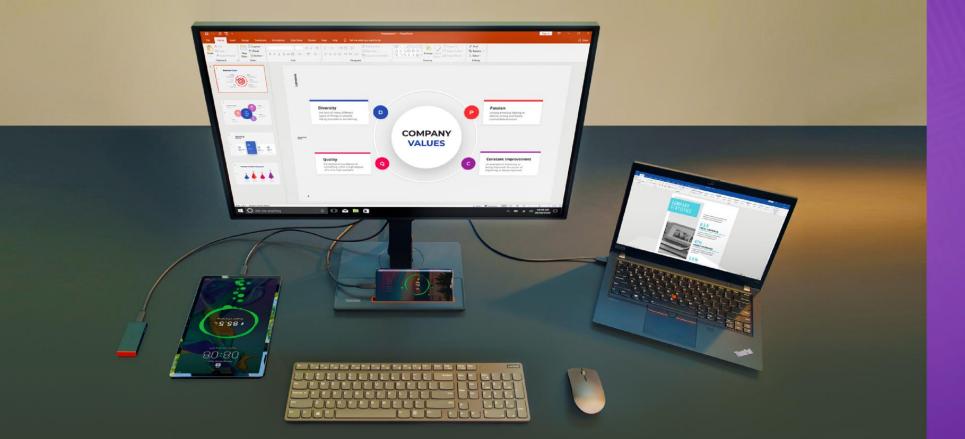
**Smarter Solutions to** 

## **Build an Effective Display-Centric Ecosystem**



With
ThinkVision
Docking Monitors

Smarter technology for all



## New Challenges in the Modern Workplace

Much of the business world has entered unchartered territory in 2021, with over half of employers<sup>1</sup> supporting a hybrid working model to cater to the newly evolved needs of employees and society.

While organizations aim to empower their teams to work flexibly, higher expectations for multi-tasking efficiently and diversified forms of collaboration present new challenges.

Cluttered workspaces, low device connectivity or compatibility negatively affect workplace productivity across all professions.

300



Modern employees switch between tasks 300 times per day on average.<sup>2</sup>

**52%** 



About 52% of workers use three or more devices to perform their job.<sup>4</sup> 3.6



The global average number of devices and connections per capital is estimated to reach 3.6 by 2023.<sup>3</sup>

413



of employees cite they're missing the key technology tools for the current working need.<sup>5</sup>

- 1. Remote Work & Compensation Survey
- 2. Blog.rescuetime.com
- 3. Cisco
- 4. Forrester
- 5. Workdesign.com

## **Target Audience Pain Points**



#### **Flexible Workers**

- Work devices not compatible with monitor, laptop, or each other
- Not having the right ports or running out of port space leads to roadblocks
- Limited space and budget<sup>1</sup> for an additional docking station
- High energy costs
- · Difficulty connecting devices while switching work locations
- Unstable and unsafe network connection when working remotely
- Too many cables leads to messy desktop and confusion

1. News.Lenovo.com







#### **Office Employees**

- Office devices are not compatible with monitor, requiring extra adaptors
- Limited desk space or room in cubicle
- Desktop clutter from tangled wires and cables leads to lower productivity and a poor work environment
- Frequent interruptions due to constantly plugging devices in and out
- Inconvenience caused by having to connect multiple devices like keyboards/phones/mouse to notebook



#### **IT Managers**

- Devices or hardware not compatible with the monitor, requiring additional equipment
- Unstable and unsafe network connection puts confidential data, important meetings or operations at risk
- No ways to multi-task or collaborate on multiple screens for detailed/specialized work
- Limited port options and port space can't connect to special devices, hard drives, or equipment
- Slow transfer speeds, non-standard cable requirements leads to lower productivity and efficiency

### Why ThinkVision Docking Monitors

### An Incomparable Pioneer in the Field

ThinkVision Docking Monitors are pioneers in the market, bringing the brand's world-renowned **Lenovo "Think"** quality and legacy of four decades.

Over the years, ThinkVision has consistently forged its own path in the industry with relentless innovation and a commitment to providing key display solutions and high-quality, reliable products for its users.

\*Lenovo exclusive offering



Easy-to-use clutterfree desktop with one cable connection



Powerful docking capability with USB-C and Thunderbolt™ 4



Wide compatibility with Lenovo devices and other OS



Save \$\$\$ with Smart Power\* technology and future-ready hardware



Software support: LDCC ThinkColour\*



'Think' quality and legacy\*

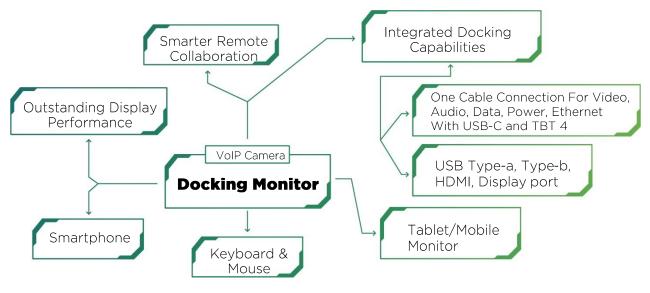
### **Docking Monitors**

#### Unlock Your Display-Centric Ecosystem

#### What is a Docking Monitor?

Compared to the traditional monitor, the docking monitor features an integrated docking station with superb connectivity to act as the hub of your display-centric ecosystem.

ThinkVision offers innovative solutions to build a display centric ecosystem with docking capabilities, better connectivity and compatibility, and manageability - to enable smarter, more productive business for employees across all professions and sectors. Keep reading to find out more.



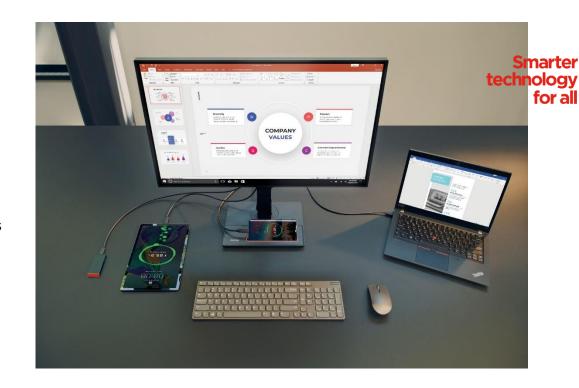




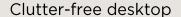
## One-Cable Solution For Everything

ThinkVision Docking Monitors utilize the power of USB Type-C technology that uses one USB-C cable for everything from data, power, video and audio, or Ethernet signals without the need for additional hardware – helping save desk space and reducing clutter.

A wide range of ports also allows for a full range of connectivity and compatibility with compatible peripherals such as keyboards, laptops, smartphones, speakers, printers, cameras for conferencing, and external storage devices.









**Docking Capability** 



Connectivity



Compatibility



Manageability

## Make Hybrid Working Work for You

ThinkVision offers portable display solutions to empower flexible working at home or on-the-go



#### Flexible Workers

- Save money without having to purchase additional docking systems and save on energy costs
- Effortlessly manage multiple devices without professional IT support
- Connect a wide range of devices and transfer audio, video, data, and power simultaneously via USB-C
- Enjoy a secure network connection to safely access company server or send files





#### **Office Employees**

- Maintain a clutter-free desktop without clunky additional docking stations or extra wires and cables
- Connect peripherals and devices to the docking monitor, in one centralized hub for easy access
- Have your notebook always ready to go for meetings
- Save time throughout the day with easy plugging
- Multi-task with fast speeds or daisy chain to connect multiple monitors for maximum viewing space



#### IT Managers

- Optimize multi-tasking and collaboration with multi-screen extensions up to 4 connected monitors
- Process large volumes of data at ultra-high speeds
- Enjoy safer more secure network connection for important and confidential work
- Save time throughout the workday with high-speed data transfer and faster power delivery
- Access to standardized PC platform requirements with universal port compatibility
- Remotely access and manage monitors and PCs thanks to Intel vPro



## How ThinkVision Docking Monitors Can Help You

#### **Maintain a Clutter-free Desktop**

- A messy desk is a common problem,<sup>1</sup> whether in office or when working remotely
- One of the biggest reasons for desk clutter in a workspace is cables and other peripherals that are essential and cannot be done without



40% of employees admit that a cluttered and messy desk directly affects their productivity.



73% of managers perceive those with an untidy desk as being disorganized.<sup>2</sup>

- 1. marketwatch
- 2. Brother.co.uk
- 3. Device connected to the hub monitor must have compatible full-functional USB Type-C ports for full functionality
- 4. Selected models only





ThinkVision Docking Monitors are designed to be the center of your workspace and maximize your productivity, while keeping your desktop environment clean and tidy.

As a universal converter, it takes different signals - network, video, audio, power, data - converting to USB signals and transferring them all simultaneously via USB-C or Thunderbolt<sup>™</sup> 4 so there is only one out-cable coming from the monitor to the laptop or other compatible devices such as smartphones.

#### This allows the desk to be free of wires, while boosting productivity

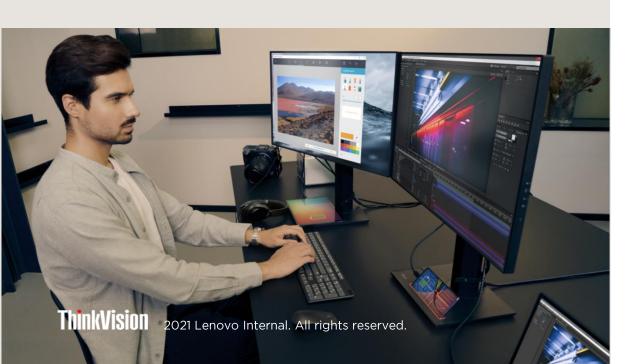
A dedicated smart chip built into docking monitors manages all high-speed signal transfers in real time. Docking monitors carry a wide range of ports include USB-C, Thunderbolt™ 4, Ethernet, HDMI, DisplayPort, and USB 3.1 for maximum connectivity and compatibility.

Connect your compatible smart device<sup>3</sup> to ThinkVision Docking Monitors with one cable and enjoy secure network,<sup>4</sup> high-quality visual-audio experience, and fast data-transfer and power between all connected devices.

A two-way symmetrical design also means no more fumbling around when trying to plug in devices.







### **Powerful Docking Capabilities**



ThinkVision Docking Monitors with the latest USB-C and Thunderbolt™ 4 technology acts as the hub of your display centric ecosystem.



Fast data-transfer for all types of signals

Know more



Secure network for Remote IT management with vPro, Wake-on-LAN

Know more



Wide compatibility with Lenovo devices and other OS

Know more



USB-C

One cable to transfer power, data, video, audio, and even Ethernet signal simultaneously



Faster data transfer up to 40Gbps Up to 2 x 4K 60Hz video Future ready expansion

### Thunderbolt™ 4 **Future-Ready Connection Simplicity**

ThinkVision Docking Monitors feature up to Thunderbolt™ 4 compatibility for the simplest and fastest computer port connection for work, play, and creation.

#### The Benefits of Thunderbolt™ 4

#### Better Flexibility

 Delivers high-speed data transfer, outputs video signals, and deliver power simultaneously

#### Higher Bandwidth

· 40Gbps bidirectional bandwidth

#### Versatile Connectivity

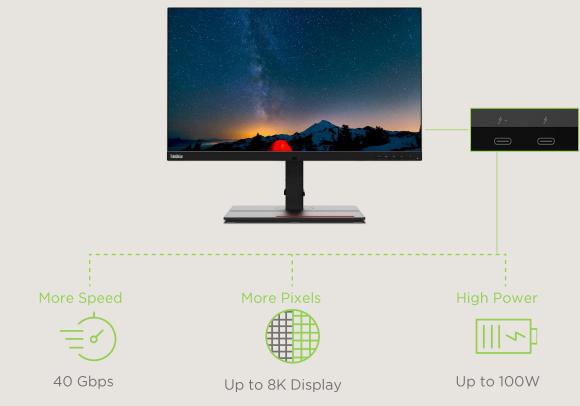
Compatible with previous versions of Thunderbolt™, USB, DP, PCIe

#### What can you connect with Thunderbolt™ 4?

- Thunderbolt<sup>™</sup> devices
- Storage
- USB peripherals mice, keyboards, controllers, headsets •
- PCI Express video capture devices
- Ultra-fast Charging up to 100W
   Networking high-speed 10 Gb Ethernet
  - External monitors up to two 4K 60Hz Video
  - Future-ready expansion compatible with upcoming generations of devices













#### Connectors / input

DP

USB-C Gen1

USB-C Gen2

Thunderbolt™ 3/4

#### Supporting Max. Resolution @ 60Hz



#### ThinkVision Supporting Model List

	<u> </u>		Output	
Product Name	DP	USB-C/Thunderbolt	DP	USB- C/Thunderbolt
Creator Extreme	No	Yes	Yes	No
P40w-20	No	Yes (Thunderbolt™ 4)	No	Yes
P34w-20	Yes	Yes	Yes	No
P27u-20	No	Yes (Thunderbolt™ 4)	No	Yes
P27h-20	Yes	Yes	Yes	No
P24h-2L	Yes	Yes	Yes	No
P27q-20	Yes	No	Yes	No
P24q-20	Yes	No	Yes	No
T27hv-20	Yes	Yes	Yes	No
T24m-20	Yes	Yes	Yes	No









## Versatile Compatibility And Connectivity



#### Universal Compatibility

- With the mainstream USB-C one-cable solution, any USB-C device can be connected to the ThinkVision Docking Monitor.
- ThinkVision Docking Monitors also feature the latest
   Thunderbolt™ 4 for the best premium experience in bandwidth,
   video processing, storage, and more.



#### Multi-Screen Collaborations

- For advanced users such as designers or editors, ThinkVision

  Docking Monitors can be connected via daisy-chain, to

  seamlessly expand your display with up to four monitors. With

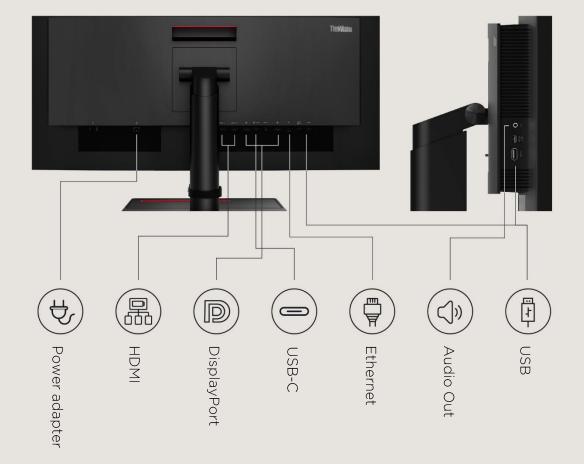
  Thunderbolt™ 4, connect 2 screens with 4K resolution video data.
- More screen real estate means more room to be productive or creative in an increasingly collaborative workplace.



## Versatile Compatibility And Connectivity

Many laptops or notebooks may come with a limited port selection. ThinkVision Docking Monitors solve that issue with a wide range of ports:

	USB Type-C	Covering most connectivity needs with capabilities of data, power, audio and video transmitting	Clean and clutter- free desktop
	HDMI	High-quality digital transmission	Uncompressed data signals
	DisplayPort	Digital transmission of wider color gamut, better refresh rates, and higher resolutions	Transmit 144Hz up to 4k
<b></b>	Thunderbolt™ Ports	Faster and wider transfer of audio and video data	Support Daisy- chain with high-speed devices
	Ethernet	Stable and safer wireless connections	Safe, secure internet connection
	DisplayPort 1.2	Faster bit rate to 21.6 Gbps with up to 8 compressed digital audio channels and QHD support at 144Hz refresh rate	Enable connections of Display Ports supported devices
<u>+</u>	USB 3.1 Gen 1	Transfer data and information up to 5 Gbps	Transfer data up to 5 Gbit/s







#### SOLVE MINOR IT SUPPORT PROBLEMS:

### **Secure Network Access**

Flexible working brings with it several issues in terms of data, network security, and remote IT management. By having people work from different locations and times, the office security umbrella gets bigger and more difficult to manage. Hardline Ethernet connections are more secure! than WiFi.

The issue, however, is that most modern laptops do not have Ethernet connectors, thin and light systems do not have the space. Even if laptops have Ethernet ports, they add to cable clutter—one more cable that can be eliminated.

Having a hardline connection to the internet is now possible through ThinkVision Docking Monitors that carry both Ethernet-in and USB-C ports. A smart chip within the monitor serves as a converter that passes network signal through USB-C. A singe cable will carry, secure, high-speed up to 1 Gbps<sup>2</sup> Internet, 3.3 times faster than WiFi<sup>3</sup> internet.



- i. Litewire
- 2. Based on the IEEE 802 LAN/MAN Standards developed by IEEE 802.3 Working Group
- 3. Based on IEEE 802.11ac, a wireless networking standard in the 802.11 set of protocols



ThinkVision Docking Monitors with Ethernet-transfer-capability can also help IT managers provide better remote IT support for your employees.



### How ThinkVision Docking Monitors Benefit IT Managers

Enhance remote IT support and assets management.

#### Case 1

Remote IT support and customize access authority

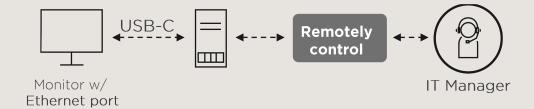


#### Mac Address Pass Through

Allows IT managers to easily manage internet access authority for different types of employees. In co-working spaces, IT managers can detect who is using the monitor by the PC/NB Mac address, then grant different access authority to different ppl.

#### Case 2

### Remote assets management at ease



#### WoL (Wake-on-LAN):

Allows IT manager remotely wake up PC\* through the monitor

#### PXE Boot (Network Booting):

Allows IT manager remotely install PC OS through the monitor

#### Intel vPro:

Allows remote access to the monitor or PC for management and security tasks when an OS is down or PC power is off



### INTEL vPRO®



A robust tool built into the monitor at a hardware level,¹ Intel vPro® simplifies IT remote management for monitors and PCs alike. The technology comes bundled with Intel® Active Management Technology (AMT) which enables remote access to monitors through LAN.

Through AMT, technicians will also have—Wake on LAN, PXE Boot, MAPT, remote power on/off, sleep/reset, remote desktop/KVM, file transfer, remote repairs for Blue Screen, event logs, BIOS access, OS Deployment, and access to system config.

#### **Key benefits**

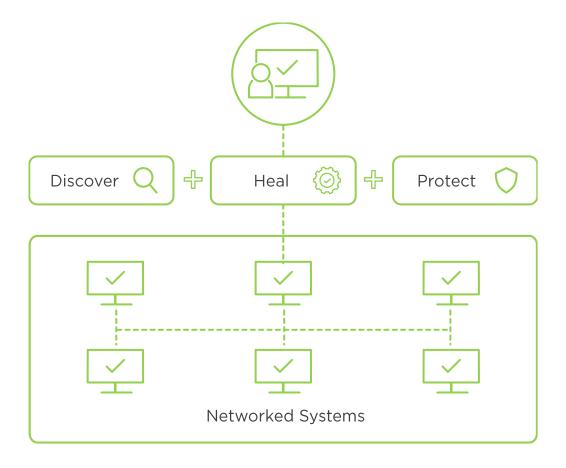
- Business-class performance to help employees get the most out of the workday
- Modern manageability and stability to help IT minimize disruptions and reduce support costs

#### **USER SCENARIO**

In a business where there are several monitors spread out over multiple floors, IT can roll out security patches all at once, without affecting the user, this can be after office hours or over the weekend.

#### Intel® Active Management Technology

#### IT Department







### **ThinkVision Docking Monitors**

The key to building an effective display centric ecosystem



Ultra-Wide Monitors for Maximized Viewing Experience



**Excellent Screen Technology** for Content Creation and Consumption



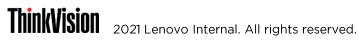
Smarter Collaboration with integrated VoIP technology and accessories

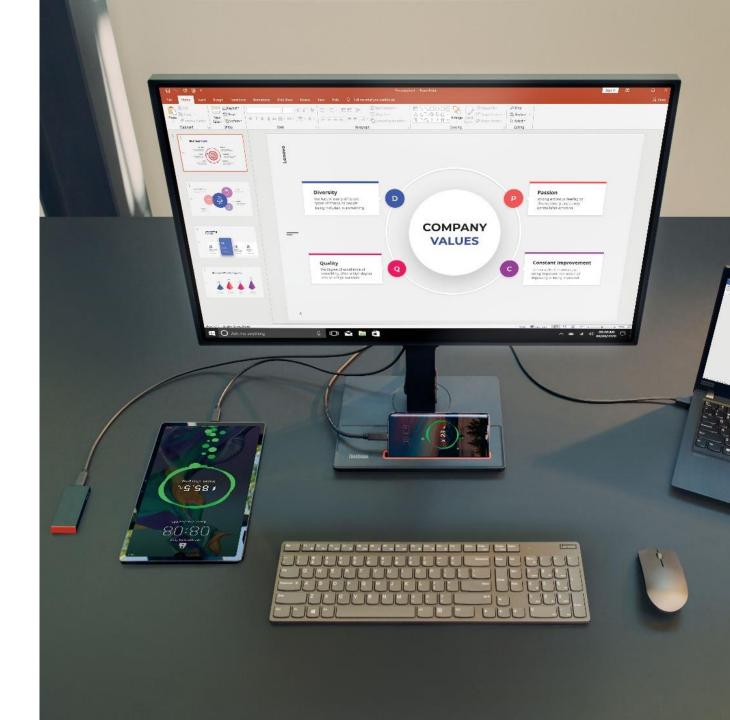


Work from anywhere with portable Mobile Monitors



Intuitive 10-point-touch interface for seamless distance learning experience: drag, draw, annotate and collaborate the way you want to.





#1 - ThinkVision Ultra-wide Docking Monitors

## Maximize your viewing experience. Vision without boundaries.



#### Big on multitasking. Great at details.

- Incredible Details: up to 5K2K WUHD resolution with 140 PPI
- Multitask with Ease: 21:9 ultra-wide monitor
- Outstanding Display: IPS panel for non-distorted color from any angle
- Fewer Distractions: experience up to 2500R curved monitor
- Work comfortably for long hours: eye protection and accurate colors with Natural Low Blue Light technology



#### One hub to master your workflow

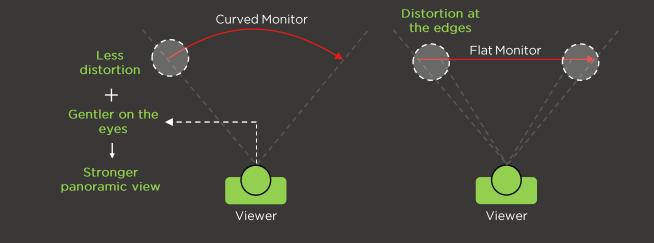
- Easy Set-up: Industry-leading Thunderbolt™ 4 or USB-C one cable for everything
- Powerful Connectivity: up to 12x ports to fulfill all your needs
- Daisy Chain: connect your second 5K/4K or 2K monitor through Thunderbolt™ 4 downstream connector with up to 75Hz
- Hot Key Control: toggle your Keyboard & Mouse quickly via eKVM function
- Working convenience: True Split functionality for better multitasking
- Plug and Play: Audio Smart Switch allows you to automatically hear the sound you want



#### Secure network deployment

- Secure Network: High-speed secure network access with RJ-45 Ethernet port
- Intel vPro\*: Support Intel Active Management Technology for Intel vPro\* clients for more stable and secure control
- Network Manageability: Remotely deploy your PCs WoL (S3/S4/S5), PXE, and MAPT\*





### Seamless collaboration for desktop ecosystem





ThinkVision P40w-20

ThinkVision P34w-20

ThinkVision Ultra-wide Docking Monitors allows users to see more and stay more focused with curved screens up to 40 inches for total immersion, enhanced productivity, unobstructed views and a healthier usage experience.

#### #2 - ThinkVision Docking Monitors for Pros

## Made For Future-Ready Content Creation and Consumption

ThinkVision Docking Monitors feature industry-leading display technologies with superior color performance for life-like visuals, made for high-quality content viewing and content creation.



Industry leading display technologies



Wide color gamut with up to 99.5% DCI-P3, 100% sRGB, 100% BT.709 and factory-calibrated color accuracy with up to average Delta E<1



Up to 4K UHD high-resolution



Mini-LED technology for better contrast and deeper blacks, with 1,152 dimming zones and over 10,368 LEDs



Life-like visual experience with up to exclusive Dolby Vision® approved and VESA certified high-dynamic range (HDR) HDR 1000 imaging technology

ThinkVision Docking Monitors give content creators the tools they need for enhanced productivity and efficiency as well as a superior visual experience.







ThinkVision Creator Extreme

ThinkVision P27u-20



#### #3 - ThinkVision Docking Monitors for Seamless Collaboration with

### **Smart VolP Monitors and** Accessories

ThinkVision Docking Monitors come with integrated VoIP functions to enable smarter remote collaborations from anywhere, with cameramic-built-in technology.



- IRRGB 1080p angle-adjustable camera with privacy shutter
- Dual noise-cancelling microphones for better voice clarity with Synaptics **AUDIOSMART®**
- 2x3W front-facing stereo speakers
- Daisy Chain for multi-screen tasking
- USB Type-C one cable total solution to transfer power, data, video, and even ethernet signal simultaneously
- Reduce eye fatigue without color distortion by Natural Low Blue Light technology



- · Windows Hello for hands-free fast log-in via
- Smart Guard (Glance by Mirametrix® software) to automatically blur your screen to protect your data
- Smart Traffic Light to inform others about working status
- Smart Energy to save power and costs

ThinkVision Monitor Accessories include the ThinkVision MC50 Modular Webcam offers better flexibility with a plug-and-play experience, compatible with select ThinkVision monitors.



High-resolution 1080p RGB video image capture with 1/3-inch sensor



Ergonomic swivel and tilt function



Built-in dual microphones with noise cancellation



Smart Traffic Light and Lens Shutter for privacy







ThinkVision MC50 Modular Camera



#### #4 - Work From Anywhere with

#### **ThinkVision Mobile Monitors**

ThinkVision offers portable display solutions to empower flexible working at home or on-the-go



Double your screen space for double productivity



Easy set-up and powerful connectivity



Extreme light-weight and ultra-thin portability



Power pass-through to stay charged from anywhere



10-point touch screen to unleash creativity and precision



Eye-care Technology with TÜV Rheinland Low Blue Light



Flexibility for spontaneous work from anywhere

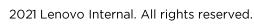


ThinkVision M14/M14t/M15 Mobile Monitor













#### #5 - Intuitive Touch Interface with

### **USB-C Docking Solution**

ThinkVision offers intuitive touch interface technology combined with industry-leading USB-C docking solutions to bring an enhanced user experience.



10-point touch screen to unleash creativity and precision



Work the way you want and stay comfortable with the ergonomic, tilt stand and VESA mount



USB-C one cable connection for power, data, video, audio



Innovative Eye-care Technology -Natural low blue light with TÜV Rheinland EyeSafe

The ThinkVision T24t-20 brings a new touch experience with one cable, with an effective and smooth touch screen paired with Eyesafe and TÜV low blue light technology, a simple-to-use interface via powerful USB-C compatibility, and ergonomic features for user comfort and better collaboration.



ThinkVision T24t USB-C Monitor with Touch Screen







### Save Even More With Smart Power

For modern employees working with multiple devices every day, ThinkVision offers cost-saving solutions that are budget-friendly for the long term.

ThinkVision Docking Monitors feature Smart Power which delivers up to 90W power by USB-C when downstream USB ports are not connected. Intelligent features such as automatic OSD brightness adjustment make for even faster charging and lower energy consumption.



#### Smart Power Technology

- Dynamically manages and controls power delivery and consumption based on different devices' requirements to improve overall energy efficiency.
- Delivers up to 90W power via USB-C when downstream USB ports aren't connected
- Intelligently lowers OSD brightness when not in use for faster charging and lower energy consumption





#### Highly Durable

Our ThinkVision Docking Monitors are built with reliable durability and world-renowned quality assurance.

- Lower maintenance costs thanks to an over 50,000-hour mean time between failures (MTBF)
- Lenovo offers a lengthy warranty period of 3 years for ThinkVision products.



#### All-in-One Docking, the Smarter Choice

With built-in docking capabilities, ThinkVision Docking Monitors help users save money that they would be spending on additional docking stations, power adapters and cables - no need for extra connectors or equipment.



# **Energy efficiency gains** translates into resources saved.

ThinkVision Monitors can help save around 8.7kwh per year by meeting strict technical specifications for energy performance, having earned the ENERGYSTAR® certificate, and rated ENERGY STAR® Most Efficient and EPEAT Gold level rated.

Users can save even more money through Smart Power, an intelligent function that manages power allocation and consumption.



24 x ThinkVision Monitors
Now Rated EPEAT Gold level



The Electronic Product Environmental Assessment Tool (EPEAT) is a method for purchasers (governments, institutions, consumers, etc.) to evaluate the impact of a product on the environment. It assesses various lifecycle environmental aspects of a device and ranks products as Gold, Silver or Bronze based on a set of environmental performance criteria.

Gold-rated products meet all required criteria plus at least 75% of optional criteria.

## 27 x ThinkVision Monitors are Granted as ENERGY STAR® Most Efficient



More ThinkVision monitors have acquired ENERGY STAR status than any other manufacturer's products. Products that make the ENERGY STAR Most Efficient list for 2020 deliver cutting edge energy efficiency along with the latest in technological innovation. They represent the year's very best for energy savings and environmental protection. And Lenovo tops the list in terms of quantity.

## Smart Power: Innovative and Smart technology to Maximize Power Efficiency



The smart built-in engine dynamically detects power consumption of compatible USB Type-C device(s).

Intuitively allocate power to other USB devices connected with the monitor to improve power efficiency.

By enhancing power efficiency, Smart Power reduces overall power consumption.

## **Lenovo Display Control Center - ThinkColour**

ThinkColour is a software developed based on the Lenovo Display Control Center platform, offered on a range of select models of ThinkVision monitors within our diverse portfolio. Easily enhance and customize your visual experience with ThinkColour.

ThinkColour offers comprehensive display management to maximize productivity, from simple adjustments between sources, to specialized color-critical settings for uncompromising quality of work, to easy monitoring and control to ensure efficiency and security - ThinkColour gives you complete control of your display and how you choose to work.



#### CREATING THE IDEAL WORKPLACE

for everyday employees

- Simplify the set-up
- Personalize your settings and make quick adjustments
- Multi-task easily with multiple screens



#### **OPTIMIZING THE VIEWING EXPERIENCE**

for advanced users, editors, or designers

- Higher performance and customization
- Color correction and calibration
- Create and save multiple scenarios for different use cases

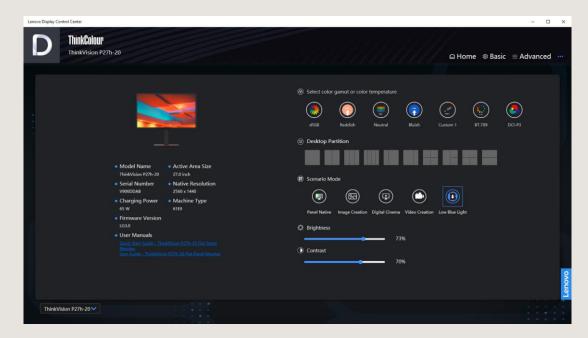


#### MANAGING THE MONITOR FLEET

#### for IT managers

- Facilitate information gathering and reporting
- Remote asset management
- · Maximize efficiency, control multiple monitors







What Makes
ThinkVision Different
from Our Competitors

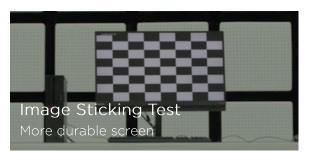
# Unmatched Reliability and Durability

ThinkVision monitors carry the legacy of Think quality. Compliant with the high-quality standards set by Lenovo specification testing, these monitors are designed for performance and durability in any office environment.

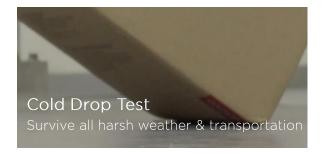


# HIGHER STANDARDS THAN COMPETITORS

Smarter technology for all



3 WORLDWIDE R&D AND DESIGN CENTERS, 2000+ QUALITY TESTS



Each ThinkVision monitor undergoes extreme tests like vibration, drop, ESD (Electrostatic Discharge), heat, and humidity\*, pushing our monitors to higher tolerances than any other industry standard.

