








# Super ultra-wide. Super ultra-amazing.

## CHG90 Series 49" Super Ultra-Wide Curved Gaming Monitor

The world's first 49" 32:9 curved gaming monitor delivers a jaw-dropping experience, filling your view with cinematic brilliance. The C49HG90DMN boasts a massive amount of real estate on a single chassis. Design games, write code, edit video and work in multiple windows like never before. Quantum Dot technology, HDR and 1.07B colors deliver stunningly realistic images and color, while 1ms\* response, 144hz refresh rate and FreeSync 2 contribute to smooth, judder-free motion. With Game Modes, Black Equalizer, Low Input Lag Mode, a gaming user interface and Arena Lighting, the CHG90 Series is the premier choice for fast-moving content professionals.



### Key Features

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**49", Super Ultra-wide 32:9 Aspect Ratio**  
 Replace clunky multi-monitor setups with a clean, seamless solution. The unique 32:9 aspect ratio is equivalent to two 27" 16:9 monitors. Picture by Picture and included software make picture management simple.
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**Ultra-Curved VA Panel, 3840 x 1080 Resolution, 600 Nits**  
 With a stunning 1800mm-radius, super-curved VA panel, the distance from screen to eye is more uniform, resulting in less eye fatigue. Half the resolution of 4K, 600 nits brightness and wide viewing angles deliver incredible picture quality.
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**Quantum Dot (Q-LED) Panel, sRGB, DCI, 1.07B Colors**  
 Quantum Dot technology supports up to 125% sRGB color space, 95% DCI and 1.07B colors, for brighter and crisper images, with more natural reds and greens. And every monitor is factory-calibrated.
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**High Dynamic Range (HDR) and 3,000:1 Contrast Ratio**  
 HDR provides a higher level of contrast between light and dark images. Combined with a best-in-class 3000:1 contrast ratio, bright colors share the screen with deep shadows and silhouettes.
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**144hz Refresh Rate, 1ms\* Response Time, FreeSync 2**  
 Advanced technologies work together to deliver a smooth and crisp presentation of fast-moving content, help eliminate blurring, ghosting and juddering, and reduce lag for gaming and video content.
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**Game Modes, Black Equalizer and Low Input Lag Mode**  
 Black gamma, sharpness, contrast and color tune are customizable with 4 different Game Modes (FPS, RPG, RTS, AOS). Samsung Black Equalizer has 20 different dark level values, and Low Input Mode maximizes keyboard and mouse response times.
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**Gaming User Interface and Arena Lighting**  
 Equipped with a modern gaming GUI with a 5-way joystick and 3 hot keys to save game settings. Audio-aligned Arena Lighting, located at the back of the monitor, adds to the thrill of gaming.

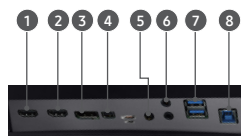
# Samsung CHG90 Series Desktop Monitors



|                       |   | C49HG90DMN   |
|-----------------------|---|--|
| Display               | Screen Size                             | 48.9"  |
|                       | Flat / Curved                           | Curved   |
|                       | Active Display Size (H x V)             | 1195.8 mm x 336.3 mm   |
|                       | Screen Curvature                        | 1800R  |
|                       | Aspect Ratio                            | 32:9 (16:9 x 2)  |
|                       | Panel Type                              | VA   |
|                       | Peak Brightness (Typical)               | 600 nits   |
|                       | Brightness (Typical / Min)              | 350 nits / 250 nits  |
|                       | Contrast Ratio Static (Typical / Min)   | 3000:1 / 2400:1  |
|                       | Dynamic Contrast Ratio                  | Mega   |
|                       | HDR (High Dynamic Range)                | Yes  |
|                       | Resolution                              | 3840 x 1080  |
|                       | Response Time                           | 1ms (MPRT)*  |
|                       | Viewing Angle (H / V)                   | 178° / 178°  |
|                       | Color Support                           | 1.07B  |
|                       | NTSC 1976                               | Typ. 88%, Min. 84%   |
|                       | sRGB Coverage                           | Typ. 125%, Min. 120%   |
| Adobe RGB Coverage    | Typ. 92%, Min. 88%                      |  |
| Refresh Rate          | 144Hz                                   |  |
| Features              | Eco Saving Plus                         | Yes  |
|                       | Eye Saver Mode                          | Yes  |
|                       | Flicker Free                            | Yes  |
|                       | Picture-By-Picture                      | Yes  |
|                       | Quantum Dot Color                       | Yes  |
|                       | USB Super Charging                      | Yes  |
|                       | Easy Setting Box                        | Yes  |
|                       | Windows Certification                   | Windows 10   |
|                       | AMD FreeSync 2                          | Yes  |
|                       | Game Color Mode                         | Yes  |
|                       | Screen Size Optimizer                   | Yes  |
|                       | Black Equalizer                         | Yes  |
|                       | Low Input Lag Mode                      | Yes  |
|                       | Refresh Rate Optimizer                  | Yes  |
|                       | Custom Key                              | Yes  |
|                       | Super Arena Gaming UX                   | Yes  |
|                       | Interface                               | Display Port 1.3   |
| Mini-Display Port 1.3 |   | 1  |
| HDMI 2.0              |   | 2  |
| Audio In              |   | 1  |
| Headphone             |   | 1  |
| USB Hub 3.0           |   | 2  |
| Operating Conditions  | Temperature                             | 10 ~ 40°C  |
|                       | Humidity                                | 10 - 80% (Non-Condensing)  |
| Calibration           | Factory Tuning                          | Yes  |
|                       | Color Mode                              | Custom / High-Brightness / FPS / RTS / RPG / AOS / sRGB / Cinema |
|                       | Factory Calibration Report              | Yes  |
| Design                | Color                                   | Charcoal Black and Titanium                                      |
|                       | Stand Type                              | HAS  |
|                       | HAS (Height Adjustable Stand)           | 4.72" ± 0.2" (120.0 ± 5.0 mm)                                    |
|                       | Tilt                                    | -2.0° (±2.0°) ~ +15.0° (±2.0°)                                   |
|                       | Swivel                                  | -15.0° (±2.0°) ~ +15.0° (±2.0°)                                  |
|                       | Wall Mount, VESA                        | 100 x 100, with Included Bracket                                 |
| Eco                   | Energy Efficiency Class                 | B  |
|                       | Power                                   | AC 100~240V  |
| Power                 | Power Consumption (Max / Typ)           | 113 W / 71 W   |
|                       | Power Consumption (DPMS)                | < 0.5 W  |
|                       | Power Consumption (Off Mode)            | < 0.3 W  |
|                       | Power Consumption (Yearly)              | 104 kWh / Year   |
|                       | Type                                    | Internal Power   |
| Dimensions            | Set Dimension with Stand (W x H x D)    | 47.4" x 20.6" x 10.3" Min., 47.4" x 20.6" x 15.0" Max.           |
|                       | Set Dimension without Stand (W x H x D) | 47.4" x 14.5" x 7.7"   |
|                       | Package Dimension (W x H x D)           | 52.0" x 12.4" x 18.7"  |
| Weight                | Set Weight with Stand                   | 33.1 lbs   |
|                       | Set Weight without Stand                | 26.2 lbs   |
|                       | Package Weight                          | 44.8 lbs   |
| Accessories           | DisplayPort Cable                       | Yes, 1.5 m   |
|                       | HDMI Cable                              | Yes, 1.5 m   |
|                       | USB Cable                               | Yes, 1.5 m   |
|                       | Power Cable                             | Yes, 1.5 m   |
|                       | Other                                   | Install CD, Quick Setup Guide                                    |
| Warranty              | Warranty                                | 1 Year   |

## Connectivity

- HDMI In 1
- HDMI In 2
- DisplayPort In
- Mini DisplayPort In
- Service/Headphone
- Mic In / Mic Out
- USB 1 / USB 2
- PC In



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