INSTALLATION INSTRUCTIONS



Kontour[™] Articulating Array Arm Wall Series



K4W120-210-310

DISCLAIMER

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IMPORTANT SAFETY INSTRUCTIONS WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided.

WARNING: Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the component.

WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components located on the K4W Series mount up to (and including) the display does not exceed 15 lbs (6.8 kg) per display.

WARNING: Use this mounting system only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

WARNING: Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.

WARNING: The wall to which the mount is being attached may have a maximum drywall thickness of 5/8" (1.6cm). Do not install drywall anchors into the seam between drywall pieces.

IMPORTANT ! : The K4W Series mounts are designed to be mounted to an 8" concrete, 8"x 8"x 16" concrete block or 2" x 4" wood studs.



WARNING: Do not use this product outdoors.

--SAVE THESE INSTRUCTIONS--

DIMENSIONS





DIMENSIONS (CONTINUED)



LEGEND

	Tighten Fastener	Pencil Mark
C	Apretar elemento de fijación	Marcar con lápiz
	Befestigungsteil festziehen	Stiftmarkierung
	Apertar fixador	Marcar com lápis
	Serrare il fissaggio	Segno a matita
	Bevestiging vastdraaien	Potloodmerkteken
	Serrez les fixations	Marquage au crayon
	Loosen Fastener	Drill Hole
	Aflojar elemento de fijación	Perforar
	Befestigungsteil lösen	Bohrloch
	Desapertar fixador	Fazer furo
	Allentare il fissaggio	Praticare un foro
	Bevestiging losdraaien	Gat boren
	Desserrez les fixations	
		Percez un trou
	Phillips Screwdriver	Adjust
	Destornillador Phillips	Ajustar
	Kreuzschlitzschraubendreher	Einstellen
	Chave de fendas Phillips	Ajustar
	Cacciavite a stella	Regolare
	Kruiskopschroevendraaier	Afstellen
	Tournevis à pointe cruciforme	Ajuster
ES.	Open-Ended Wrench	Remove
	Llave de boca	Quitar
	Gabelschlüssel	Entfernen
	Chave de bocas	Remover
\bigcirc	Chiave a punte aperte	Rimuovere
_	Steeksleutel	Verwijderen
	Clé à fourche	Retirez
E Se Contraction of the second	By Hand	Optional
	A mano	Opcional
	Von Hand	Optional
	Com a mão	Opcional
	A mano	Opzionale
	Met de hand	Optie
	À la main	En option
	Hex-Head Wrench	
		Security Wrench
	Llave de cabeza hexagonal	Llave de seguridad
	Sechskantschlüssel	Sicherheitsschlüssel
	Chave de cabeça sextavada	Chave de segurança
	Chiave esagonale	Chiave di sicurezza
	Zeskantsleutel	Veiligheidssleutel
	Clé à tête hexagonale	Clé de sécurité

TOOLS REQUIRED FOR INSTALLATION



PARTS



Assembly And Installation

Install to Wall

Install Arm Assembly to Wall - Wood Studs

WARNING: Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the component. The wall to which the mount is being attached may have a maximum drywall thickness of 5/8" (1.6cm).

- 1. Determine mounting location.
- Measure 1" above desired center line of display and mark a hole at desired mounting location on the center of wood stud. (See Figure 1)

IMPORTANT ! : Use a level to make sure arm assembly (Z) is level when mounted to the wall!

IMPORTANT ! : The K4W Series mounts are designed to be mounted to a 2" x 4" wood stud wall.

3. Drill one 1/8" diameter hole at location marked in Step 2 with a depth of 1 3/4". (See Figure 1)



Figure 1

- 4. Install one 1/4 x 2 1/2" lag bolt (B) into hole, leaving screw hanging out 1/2" from the wall. (See Figure 1)
- 5. Hang arm assembly (Z) onto lag bolt (B) by latching keyshaped hole over top of bolt. (See Figure 1)
- 6. Mark two holes at lower mounting hole locations. (See Figure 2)
- 7. Remove arm assembly (Z) from wall.

- 8. Drill two 1/8" holes at locations marked in Step 6. (See Figure 2)
- 9. Hang arm assembly (Z) back onto wall.
- Install two 1/4 x 2 1/2" lag bolts (B) into holes drilled in Step 8 to secure mount to wall. (See Figure 2)
- 11. Tighten all three lag bolts (B) to fully secure mount to wall.



Figure 2

12. Proceed ahead to corresponding Installation to Arm Section.

Install Arm Assembly to Wall - Hollow Concrete Block or Poured Concrete

WARNING: Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the component.

WARNING: The wall to which the mount is being attached may have a maximum drywall thickness of 5/8" (1.6cm). Do not install drywall anchors into the seam between drywall pieces.

WARNING: INSTALLING A K4W SERIES MOUNT INTO UNDERRATED OR DAMAGED CONCRETE CAN LEAD TO SERIOUS INJURY OR DAMAGE TO PRODUCT! Never install a K4W Series mount into cracked, chipped or flaking concrete.

- 1. Determine mounting location.
- 2. Measure 1" above desired center line and mark a hole at desired mounting location. (See Figure 3)

IMPORTANT ! : Use a level to make sure arm assembly (Z) is level when mounted to the wall!

IMPORTANT ! : The K4W Series mounts are designed to be mounted to an 8" concrete or 8"x 8"x 16" concrete block wall.

3. Drill one 5/16" diameter hole at location marked in Step 2 with a depth of 3 1/4". (See Figure 3)



Figure 3

Install one concrete anchor (C) into drilled hole. (See Figure 3)

- 5. Install one 1/4 x 2 1/2" lag bolt (B) into concrete anchor (C), leaving bolt hanging out 1/2" from the wall. (See Figure 3)
- 6. Hang arm assembly (Z) onto lag bolt (B) by latching keyshaped hole over top of bolt. (See Figure 3)
- 7. Mark two holes at lower mounting hole locations. (See Figure 4)
- 8. Remove arm assembly (Z) from wall.
- 9. Drill two 5/16" holes at marked locations. (See Figure 4)
- 10. Install two concrete anchors (C) into holes. (See Figure 4)
- 11. Hang arm assembly (Z) back onto wall.
- 12. Install two 1/4 x 2 1/2" lag bolts (B) into concrete anchors (C) to secure mount to wall. (See Figure 4)
- 13. Tighten all lag bolts (B) to fully secure mount to wall.



Figure 4

K4W210/310 Installation to Arm

 Use two 3/8-16 x 2 3/4" socket head carriage screws (A1) and two 3/8" lock nuts (A2) to secure left array arm (X) and right array arm (Y) to array center (AA or BB). (See Figure 5)



Figure 5

2. Hang array center (AA or BB) onto mounting tab on arm assembly (Z) faceplate. (See Figure 6)



Figure 6

 Use two #10-32 x 3/8" button head cap screws (D2) to secure arm assembly (Z) to array center (AA or BB). (See Figure 7)



Figure 7

- (K4W310 only) Insert two channel attachments (J) into back of array center (BB). Attachments must be turned horizontally in order to fit into channel. (See Figure 8)
- **NOTE:** Channel attachments are already pre-installed on K4W210. Proceed ahead to step 7 if installing K4W210.



Figure 8

- 5. (K4W310 only) Rotate channel attachments (J) 90° clockwise. (See Figure 9)
- (K4W310 only) Slide channel attachments (J) toward arm assembly (Z) to prepare for handle installation. (See Figure 9)



Figure 9

 Use two #10-32 x 3/8" Phillips pan machine screws (D1) and two handle clamps (G) to secure handle (H) to array center (AA or BB). (See Figure 10)





K4W120 Installation to Arm

 Use four #10-24 x 1/2" button head cap screws (S) to secure K4W120 head assembly (T) to arm assembly (Z). (See Figure 11)



Figure 11

Display Installation

Faceplate Positioning (K4W120 only)

IMPORTANT ! : Faceplates should be positioned prior to attaching displays for the K4W120 as the height cannot be adjusted with the displays attached to the faceplates.

- 1. Loosen height adjustment screws for each faceplate to adjust height. (See Figure 12)
- 2. Adjust display to desired height. (See Figure 12)

IMPORTANT ! : In order to install displays with no gap in between displays, distance between faceplates must equal the height of each display. (See Figure 13)

Faceplates may be positioned a minimum of 12" apart and a maximum of 16" apart. (See Figure 13)

 Tighten height adjustment screws to lock display's position. (See Figure 12)









WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components located on the K4W Series mount up to (and including) the display does not exceed 15 lbs (6.8 kg) per display.

CAUTION: Using screws of improper size may damage your display! Proper screws will easily thread into display mounting holes.

NOTE: Supplied screws (M, N and P) may not fit properly for all displays. See display's operating instructions for details.

Flush Mounting Holes

IMPORTANT ! : For the K4W120, lower display must be installed before installing upper display!

 Using Phillips screwdriver, carefully install two M4 x 12mm Phillips pan machine screws (P) into the *upper* mounting holes on the display. Thread screws completely into display, then back out 3 complete turns. (See Figure 14)



Figure 14

- Pick up and align display so that screws (P) (installed on the back of the display in the previous step) fit into the mounting holes on the faceplate. Lower the display firmly into place. (See Figure 14)
- Using Phillips screwdriver, install two M4x12 mm Phillips pan machine screws (P) through the *lower* mounting holes on faceplate into the display. (See Figure 15)



Figure 15

- 4. Tighten all four screws (P). Do not over-tighten!
- **NOTE:** If roll adjustment is desired for center faceplate, do not tighten screws.
- 5. Repeat Steps 1-4 for other displays.
- 6. Proceed to Wall Cover Installation Section.

Recessed Mounting Holes

IMPORTANT ! : For the K4W120, lower display must be installed before installing upper display!

- **NOTE:** If faceplate does not fit into recessed area of display, proceed with the steps in this section.
- Determine depth of recessed mounting holes relative to back surface of display (against which faceplate will contact).
- 2. Select proper length spacer and screw from table below:
- **NOTE:** All spacers used should be the same length. If the recess depths result in multiple spacer lengths, then select the longer spacer.

IF recess DEPTH is:	THEN use spacer:	AND screw:
3/8" or less	Q (3/8" long)	N (M4 x 20mm)
More than 3/8" up to and including 3/4"	R (3/4" long)	M (M4 x 30mm)

CAUTION: Using screws of improper size may damage your display! Proper screws will easily and completely thread into display mounting holes.

 Using Phillips screwdriver, carefully install two selected screws (N or M) through selected spacers (Q or R) into the upper mounting holes on the display. Thread screws completely into display, then back out 3 complete turns. (See Figure 16) 4. Pick up and align display so that screws (N or M) (installed on the back of the display in the previous step) fit into the mounting holes on the faceplate. Lower the display firmly into place. (See Figure 16)



Figure 16

- 5. Slide two remaining selected spacers (Q or R) in between faceplate and display, positioning them over the *lower* two mounting holes. (See Figure 17)
- Install two remaining selected screws (N or M) through lower two mounting holes on faceplate, selected spacers (Q or R) into the *lower* mounting holes on the display. (See Figure 17)



Figure 17

- 7. Tighten all four screws. Do not over-tighten!
- 8. Repeat Steps 3-7 for other displays.

Wall Cover Installation

CAUTION: Wall covers are fragile and may be damaged or broken if installed with excessive force! Use caution when installing and removing wall covers.

- Install top cover (K) onto upper section of wall plate. (See Figure 18)
- Install bottom cover (L) onto lower section of wall plate. (See Figure 18)



Figure 18

Adjustments

Pivot Adjustment (Array Arm) (K4W210/310 only)

- 1. Array arms may pivot toward the front of mount up to 20° per arm. (See Figure 19)
- When arms are at desired pivot position, lock pivot position by tightening 3/8-16 x 2 3/4" socket head carriage screws (A1) using 5/16" hex key (E5). (See Figure 19)





Pivot Adjustment (Column Arm)

- 1. Use handle to extend or collapse column arm (Z) as desired. (See Figure 20)
- (Optional) Loosen or tighten column arm pivot tension screws as desired to increase or decrease pivot tension. (See Figure 20)



Figure 20

Mount Height Adjustment

The TS218SU may be adjusted 1/2" up or down after installation to the wall.

- 1. Remove display from main assembly.
- 2. Remove top and bottom covers (K and L) to expose height adjustment screws.
- 3. Use 1/8" hex key (U) to loosen four height adjustment screws. (See Figure 21)
- 4. Raise or lower mount until desired height is achieved. (See Figure 21)



Figure 21

- 5. Tighten four height adjustment screws. (See Figure 21)
- 6. Reinstall top and bottom covers (K and L).
- 7. Reinstall display.

Display Height Adjustment (K4W120 only)

- **NOTE:** Remove display from faceplate in order to expose height adjustment screws.
- 1. Loosen height adjustment screws for specific display that will be adjusted. (See Figure 22)
- 2. Adjust display to desired height. (See Figure 22)
- Tighten height adjustment screws to lock display's position. (See Figure 22)



Figure 22

Faceplate Assembly Removal

K4W210/310 Faceplates

- Remove hex head bolt from bottom of faceplate assembly. (See Figure 23)
- 2. Slide out removable plate from bottom of faceplate assembly. (See Figure 23)



Figure 23

Remove faceplate assembly from array arm. (See Figure 23)

To Reattach Faceplate Assembly

- 4. Place faceplate assembly on array arm at desired mounting position. (See Figure 24)
- 5. Slide removable plate back into slot at bottom of faceplate assembly. (See Figure 24)
- 6. Reinstall hex head bolt removed in Step 1 to secure faceplate assembly to array arm. (See Figure 24)





Pitch/Roll/Yaw Adjustment

K4W210/310 Faceplates

- 1. Loosen knob on top of faceplate assembly. (See Figure 25)
- 2. Adjust pitch, roll and/or yaw as desired. (See Figure 25)
- 3. Tighten knob to secure desired faceplate position. (See Figure 25)



Figure 25

K4W120 Faceplate(s)

Pitch

- 1. Loosen knob on side of center faceplate assembly. (See Figure 26)
- 2. Adjust pitch as desired. (See Figure 26)
- Tighten knob to secure desired pitch position. (See Figure 26)



Figure 26

Roll

- 1. Loosen screws holding display to faceplate slightly.
- 2. Adjust roll position as the mounting holes on faceplate allow.
- 3. Tighten screws to lock roll position.

Lateral Shift (K4W210/310 only)

- 1. Loosen knob on top of faceplate assembly until faceplate can slide freely along array. (See Figure 27)
- 2. Adjust lateral position as desired. (See Figure 27)
- 3. Tighten knob to secure lateral position. (See Figure 27)



Figure 27

Cable Management - Covers (K4W210/310 only)

- 1. Route cables from display through cable management covers (V) as desired. (See Figure 28)
- 2. Install cable management covers (V) onto array arms (X and Y). (See Figure 28)



Figure 28

Cable Management - Clips

- Use two #10-24 x 3/8" button head cap screws (E2) to attach two tie mounts (E1) to upper mounting arm. (See Figure 29)
- Use two #10-24 x 3/8" button head cap screws (E2) to attach two tie mounts (E1) to lower mounting arm. (See Figure 29)



- 3. Route cables along mounting arms. (See Figure 30)
- 4. Use cable ties (not included) to secure cables to tie clips (E1). (See Figure 30)
- **NOTE:** Leave enough slack in the cables so that arm may still swing without resistance from the cables.



Figure 30



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