

Candid Color Systems Photography Guides

Version 2021c



Color Space

The Correct Color Space

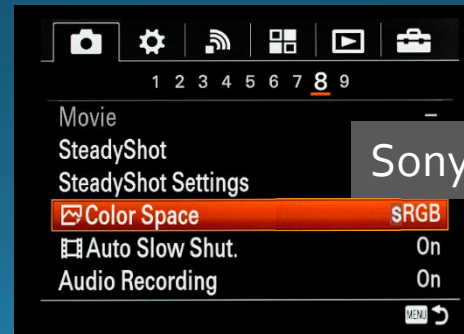
- All images should be submitted in sRGB Color Space for the most predictable results in color.
- Submitting images in Adobe RGB Color Space will be converted to sRGB Color Space prior to processing for Cutouts or Printing.



Canon Cameras



Nikon Cameras



Sony Cameras

Sports

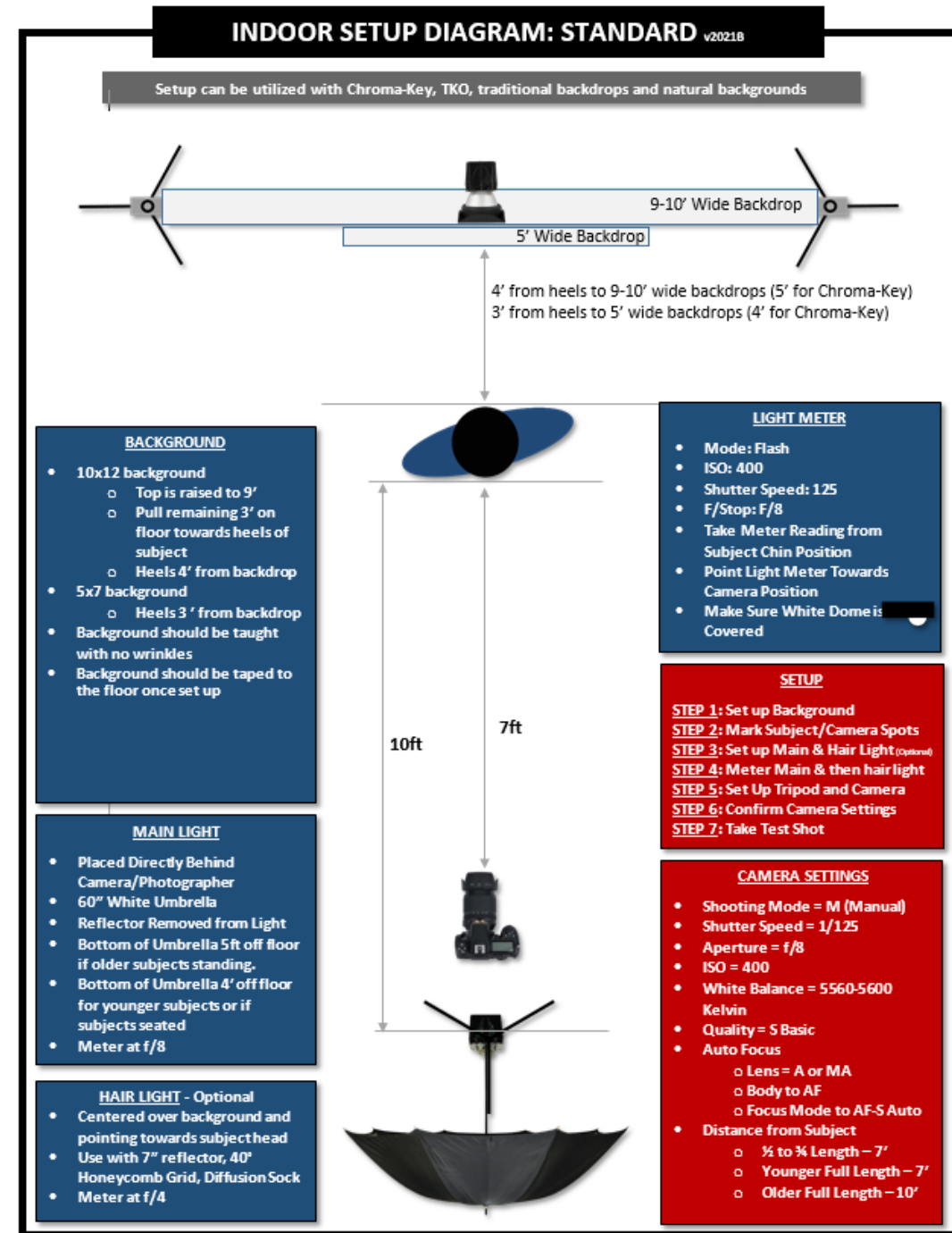
Single or Double Studio Lights

Not High Speed Sync Capable

Indoor Setup

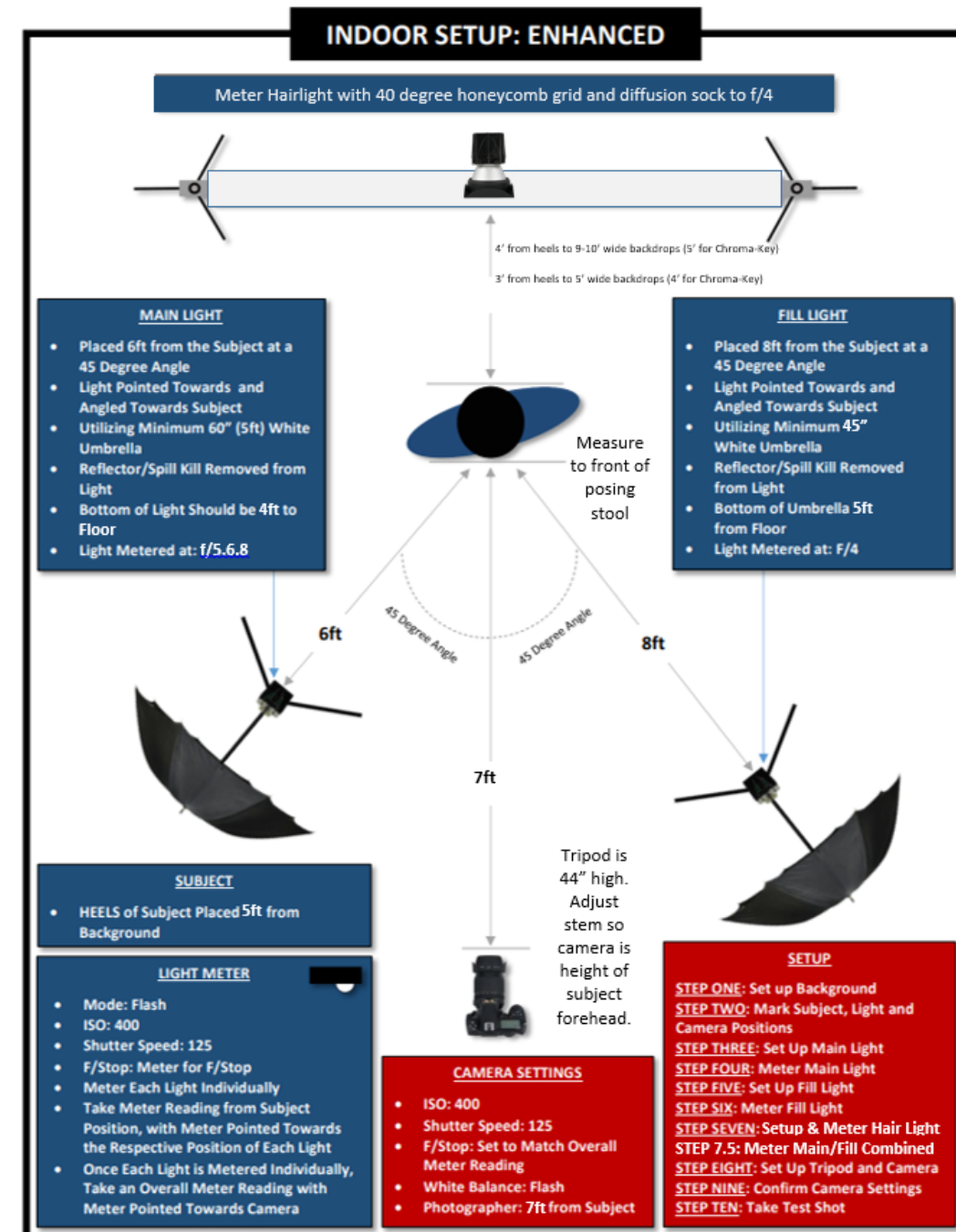
Single Light w/ Optional Hair Light

- For TKO, Chroma-Key, Traditional, Natural Backgrounds in School, Sports and Portrait Markets
- Camera
 - ISO = 400
 - ISO800 if using natural venue background
 - Mode = M
 - Shutter Speed = 1/125
 - Aperture = f/8
 - WB = 5560 K
 - Quality = S Basic
 - Focal Length = 35mm-105mm
 - Distance to Subject = 7'-10'
 - Subject Heels to Background
 - 4' for 10' Wide Backdrop – 5' if Chroma-Key
 - 3' for 5' Wide Backdrop – 4' if Chroma-Key
- Main Studio Light
 - Power = Meter to f/8
 - Distance to Subject = 10'
- Hair Light - Optional
 - Power = Meter to f/4-f/5.6



Indoor Setup Enhanced Lighting

- Camera
 - ISO = 400
 - Mode = M
 - Shutter Speed = 1/125
 - Aperture = f/8
 - WB = 5560 K
 - Quality = S Basic
 - Focal Length = 35mm-105mm
 - Distance to Subject = 7'-10'
- Main Studio Light
 - Power = Meter to f/5.6.8 (Point meter towards light – All other lights off)
 - Distance to Subject = 7'
- Fill Light
 - Power = Meter to f/4 (Point meter towards light – All other lights off)
 - Distance to Subject = 7'
- Hair Light
 - Power = Meter to f/4 (Point meter towards light – All other lights off)
- Combined
 - Meter to f/8
 - Adjust main if over/under until f/8 (Point meter towards camera – All lights on)



Dramatic Indoor Setup Diagram

• Camera

- ISO = 400
- Mode = M
- Shutter Speed = 1/200-1/250
- Aperture = f/8-f/9
- WB = 5560 K-5600K
- Quality = S Basic
- Focal Length = 35mm-105mm
- Distance to Subject = 7'-15'

• Main Studio Light

- Power = Meter to f/8
- Distance to Subject = 7'

• Rimming Light 1 – Opposite Main Light

- Power = Meter to f/5.6.5
- Distance to Subject = 7'

• Rimming Light 2 - Optional

- Power = Meter to f/5.6.5
- Distance to Subject = 7'

Meter f/5.6.5 at 1/250 & ISO 400 from closest shoulder of subject with meter pointing directly at light. Only 1 light on at a time when metering

Optional Flag if getting flare from light

Dramatic Indoor Setup Diagram-2021A

If using backdrop
Subject's heels 3' from 5' Wide Backdrop
Subject's heels 4' from 10' Wide Backdrop

Optional 2nd Rim/Accent light. Set to match opposite Rim light

- 7" Reflector with 40 Degree Honeycomb Grid or 8.5" Reflector with 30 Degree Grid or strip dome with grid
- Bottom of light is 4.5' from floor and 7' from subject. Aim studio light directly at subject.

Camera Settings

- ISO = 400
- Shutter Speed = 1/250*
**1/200 if max sync for camera*
- Aperture = f/9 or f/8 for darker skin
- Quality = S Basic
- WB = K 5560
- Clarity to +2



- 60" Umbrella or Softbox
- Bottom of umbrella 48" from floor. Aim studio light directly at subject

Meter to f/8 at 1/250 & ISO400 from chin of subject with meter pointing directly at camera

Outdoor Sports Single Studio Light

- Camera
 - ISO
 - Sunny to Cloudy = 100
 - Really Dark Cloudy, Early or Late Day = 800
 - Mode = M
 - Shutter Speed
 - Sunny = 1/250
 - Cloudy = 1/125
 - Shade/Dark Cloudy = 1/60
 - Aperture = f/11
 - WB = 5560 K – 5600 K
 - Quality = S Basic
 - Focal Length = 35mm-120mm
 - Distance to Subject
 - Individuals = 35-70mm at 10'
 - Groups = 18-35mm at 10'-15'
- Main Studio Light
 - Power = Meter to f/10 or f/8.0.7 @ 1/125 Shutter
 - Distance to Subject = 10'



OUTDOOR SETUP DIAGRAM v2021A

Default Settings @ ISO100 Shutter Speed Reference Chart
(Lighting Condition Prior to Taking Picture of Subject)

1/250th - If Subject Shadow CAN be seen
 1/125th - If Subject Shadow can NOT be seen
 1/60th - Low Light
 1/30th - Very Low Light (tripod required)

Fall Settings for Early Morning or Dark Overcast
 ISO800
 1/60-1/250 Shutter Speed
 f/11 Aperture/FStop

- Light should be metered at ISO 800 to f/8.0.7 (f/10)
- Re-meter and adjust the light again when going back to default settings



Front center of groups are positioned where single subjects stand.

SUBJECT

- Subject is Positioned 10ft from Light/Flash
- Subject Should be Angled Slightly Away from Camera and AWAY from the Sun
- 10ft Mark is Where the Individual Subject is Positioned AND Where the Front Row of the Group is Positioned

MAIN LIGHT

- 8.5" Silver Reflector Without Diffusion Sock
- Bottom of Reflector Should be 5ft from Ground
- Light is Positioned 10ft from Subject Position
- Light Metered at: f/10 or f/8.0.7 @ 1/125 Shutter Speed

LIGHT METER

- Mode: Flash
- ISO: 100
- Shutter Speed: 1/125
- F/Stop: F/10 or f/8.0.7
- Take Meter Reading from Subject Chin Position
- Point Light Meter Towards Camera Position
- Make Sure no Direct Sunlight is Hitting White Dome
- Make Sure White Dome is Not Covered

SETUP

STEP ONE: Mark Subject Position
 STEP TWO: Mark Light/Flash Position
 STEP THREE: Set Up Light/Flash
 STEP FOUR: Meter Light/Flash
 STEP FIVE: Set Up Tripod and Camera
 STEP SIX: Take Test Shot

CAMERA SETTINGS

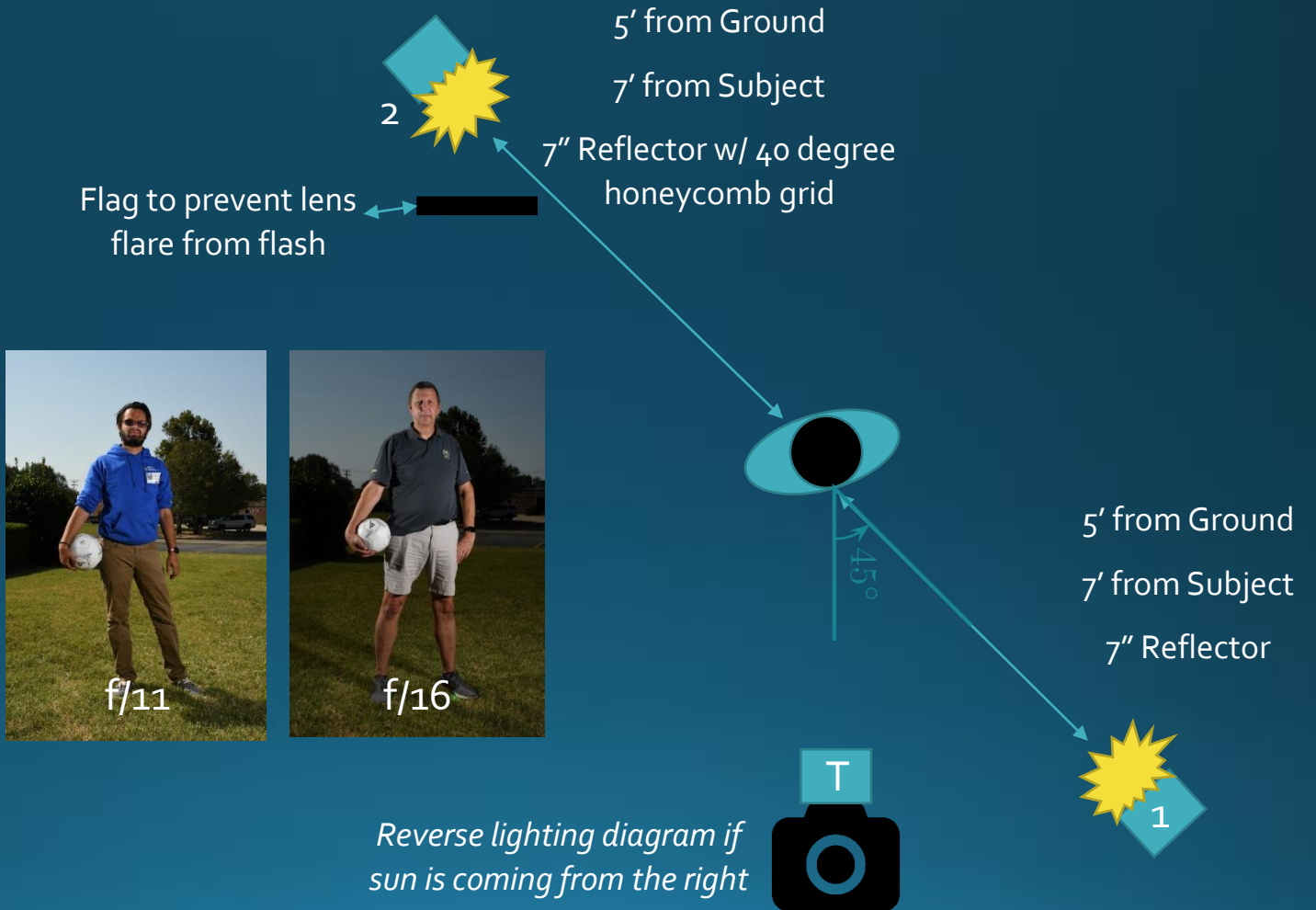
- ISO: 100
- F/Stop: F/11
- Shutter Speed: 1/30 to 1/250 (See Shutter Speed Reference Chart)
- White Balance: K 5560
- S Basic (resolution/quality)

10ft

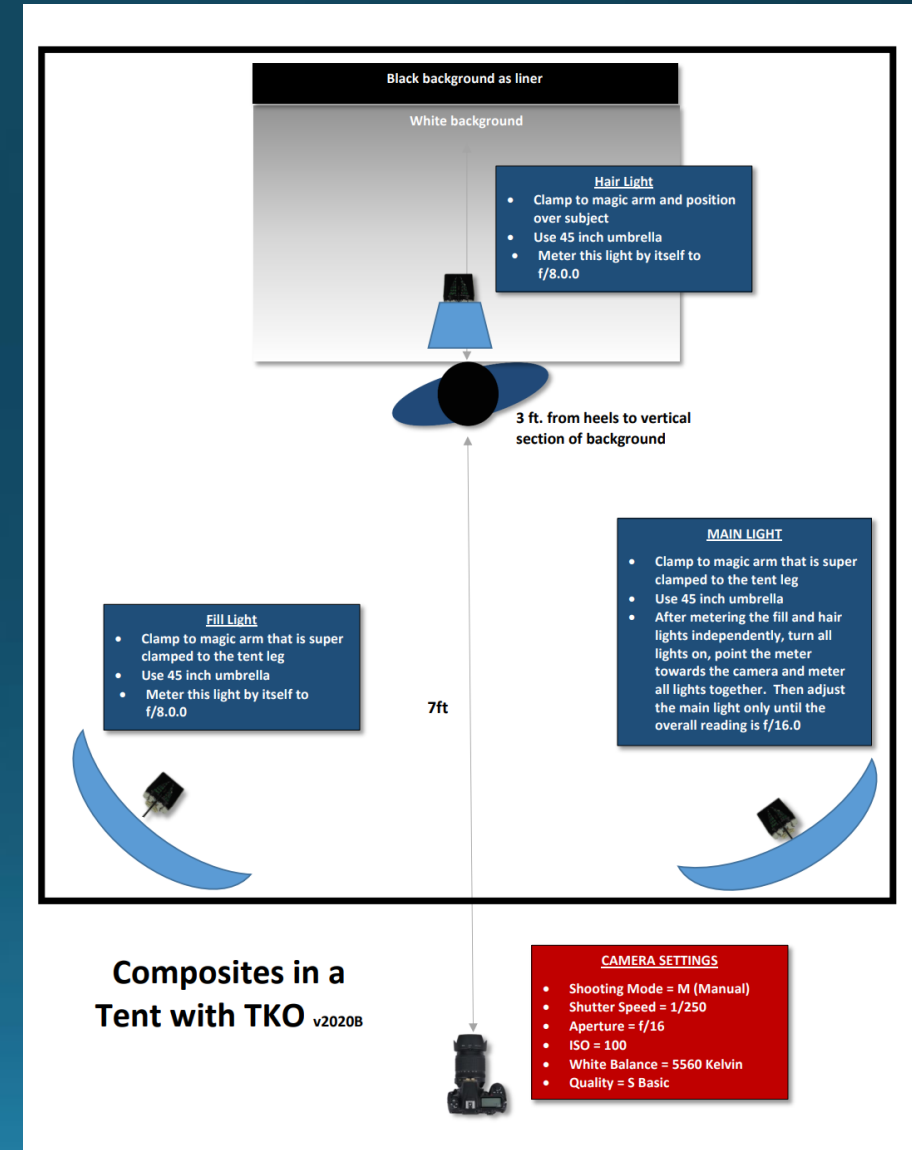
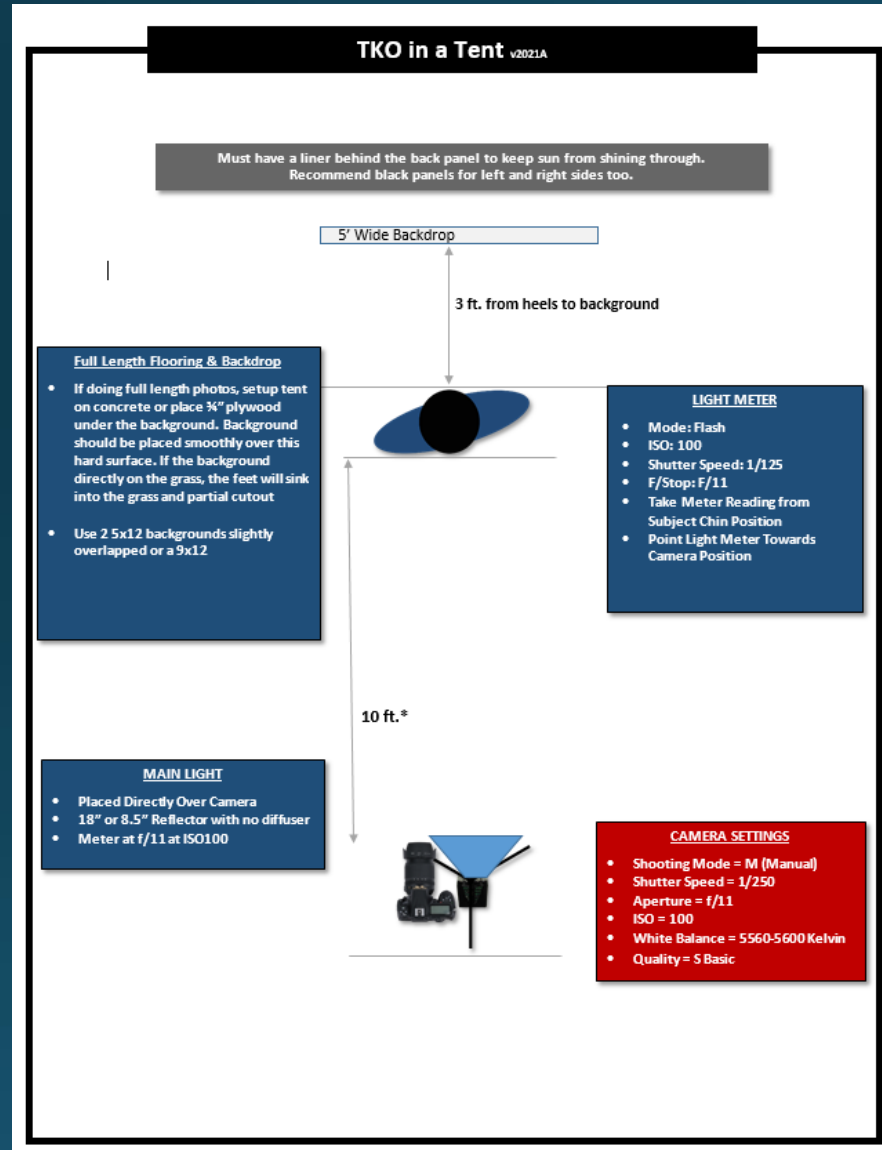


Outdoor Sports – w/ 2 Studio Lights

- Camera
 - Photo Shooting Menu / Set Picture Control = Vivid
 - ISO = 100 (ISO800 for early or late shooting)
 - WB = 5560 K – 5600 K
 - Quality = S Basic
 - Shooting Mode = M
 - Shutter Speed
 - Sunny = 1/250
 - Cloudy = 1/125
 - Shade or Dark Cloudy = 1/60
 - Aperture = f/11 or f/16 (More Dramatic)
 - Focal Length = 50mm-140mm at 5'-15'
- Studio Light 1 on Stand positioned opposite of sun at 45° from camera
 - Meter to f/11 or f/16
- Studio Light 2 on Stand
 - Meter to f/10.5 or f/11.5



Tent Diagrams – Configured for TKO



High Speed Sync

Outdoor Sports – HSS w/ Single Speedlight

- Camera
 - ISO = 100
 - Shooting Mode = M
 - Custom Settings
 - Bracketing/Flash
 - Flash Sync Speed = 1/320 s (Auto FP)
 - Shutter Speed
 - Sunny = 1/3200 (Go to 1/6400 if sky is too bright)
 - Cloudy = 1/1600
 - Shade or Dark Cloudy = 1/800
 - Aperture = f/2.8
 - WB = 5560 -5600K
 - Photo Shooting Menu
 - Set Picture Control
 - Vivid
 - Quality = S Basic
 - Focal Length = 50mm-120mm
 - Distance to Subjects
 - Individuals = 5'-8'
 - Groups = 7'-10'
- Speedlight (Mounted on camera)
 - Mode = TTL BL
 - Exposure Comp = 0.0 - +0.7

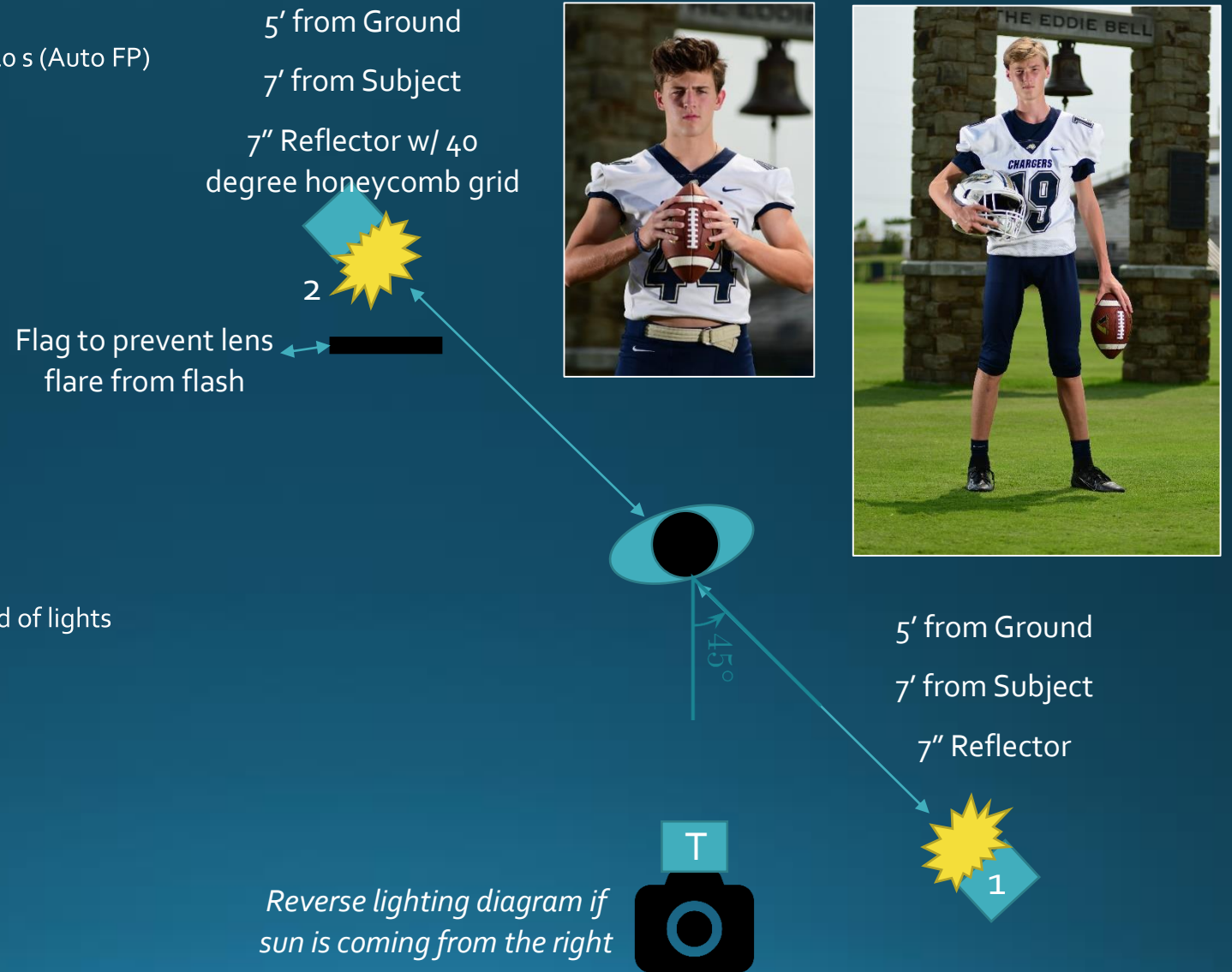


Outdoor Sports – HSS w/ 2 Lights

- Camera
 - Custom Settings / Bracketing/Flash / Flash Sync Speed = 1/320 s (Auto FP)
 - Photo Shooting Menu / Set Picture Control = Vivid
 - ISO = 100
 - WB = 5560 K – 5600 K
 - Quality = S Basic
 - Shooting Mode = M
 - Aperture & Shutter Speed

Sunny	Cloudy	Shade
f/2.8 – 1/3200	f/2.8 – 1/1600	f/2.8 – 1/800
f/4 – 1/1600	f/4 – 1/800	f/4 – 1/400
f/5.6 – 1/800	f/5.6 – 1/400	f/5.6 – 1/200
f/6.3 – 1/640	f/6.3 – 1/320	f/6.3 – 1/160

- Focal Length = 50mm-120mm at 5'-15'
- Transmitter(T) on Camera – Settings will vary based on model/brand of lights
 - HSS Engaged
 - Group A for Light 1 = TTL – Exposure Comp 0.0 to -1.0 (Test!)
 - Group B for Light 2 = TTL – Exposure Comp 0.0 to -2.0
 - Channel 15 or higher for Godox
- Studio Light 1 on Stand positioned opposite of sun
 - Group = A (Channel 15+ for Godox) & HSS Engaged
- Studio Light 2 on Stand
 - Group = B (Channel 15+ for Godox) & HSS Engaged

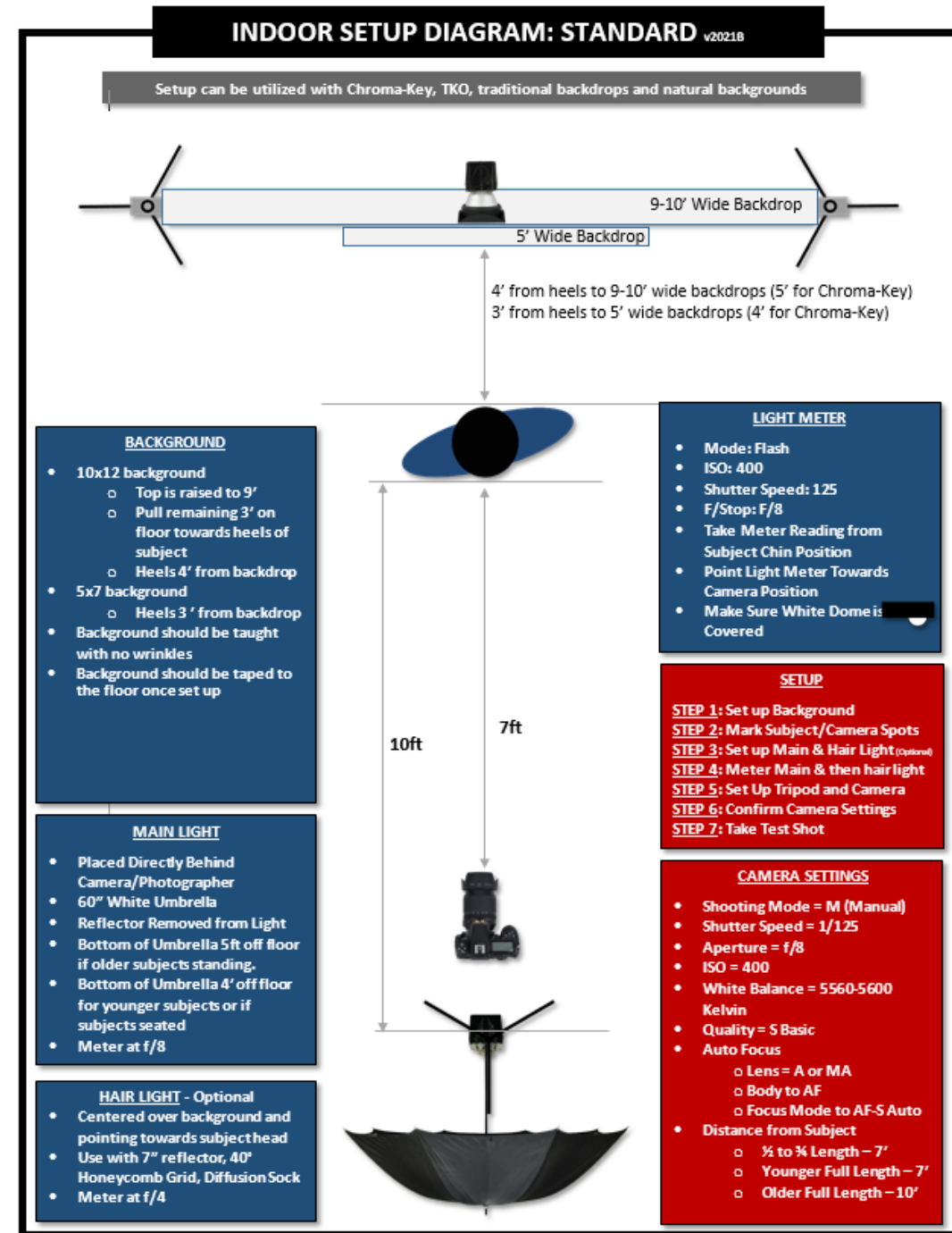


Portraits

Indoor Setup

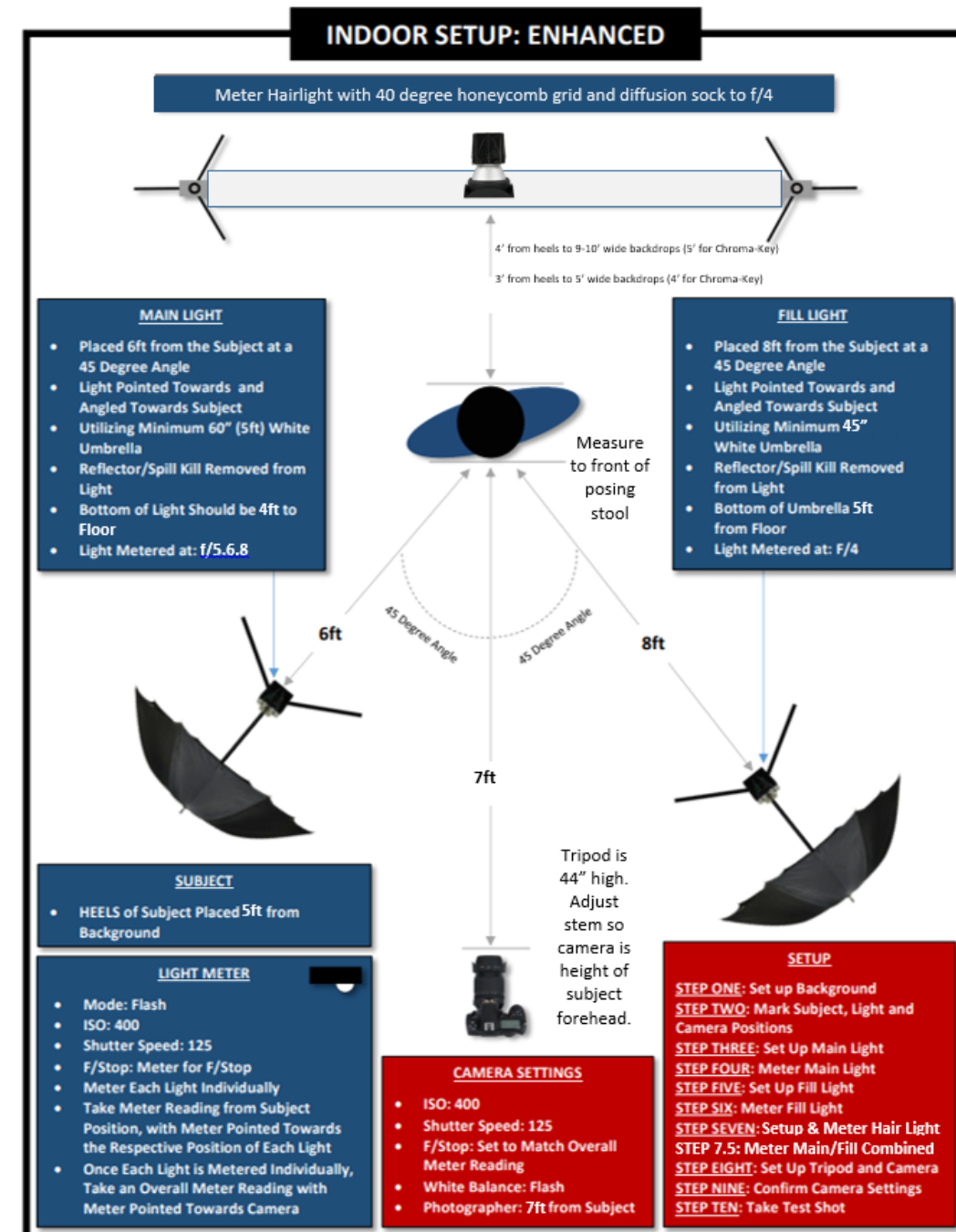
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 - Quality = S Basic
 - Focal Length = 35mm-105mm
 - Distance to Subject = 7'-10'
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 - 3' for 5' Wide Backdrop – 4' if Chroma-Key
- Main Studio Light
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- Hair Light - Optional
 - Power = Meter to f/4-f/5.6



Indoor Setup Enhanced Lighting

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 - ISO = 400
 - Mode = M
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Dramatic Indoor Setup Diagram

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- Mode = M
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- Aperture = f/8-f/9
- WB = 5560 K-5600K
- Quality = S Basic
- Focal Length = 35mm-105mm
- Distance to Subject = 7'-15'

Main Studio Light

- Power = Meter to f/8
- Distance to Subject = 7'

Rimming Light 1 – Opposite Main Light

- Power = Meter to f/5.6.5
- Distance to Subject = 7'

Rimming Light 2 - Optional

- Power = Meter to f/5.6.5
- Distance to Subject = 7'

Meter f/5.6.5 at 1/250 & ISO 400 from closest shoulder of subject with meter pointing directly at light. Only 1 light on at a time when metering

Optional Flag if getting flare from light

Dramatic Indoor Setup Diagram-2021A

If using backdrop
Subject's heels 3' from 5' Wide Backdrop
Subject's heels 4' from 10' Wide Backdrop

Optional 2nd Rim/Accent light. Set to match opposite Rim light

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- Bottom of light is 4.5' from floor and 7' from subject. Aim studio light directly at subject.

Camera Settings

- ISO = 400
- Shutter Speed = 1/250*
**1/200 if max sync for camera*
- Aperture = f/9 or f/8 for darker skin
- Quality = S Basic
- WB = K 5560
- Clarity to +2



- 60" Umbrella or Softbox
- Bottom of umbrella 48" from floor. Aim studio light directly at subject

Meter to f/8 at 1/250 & ISO400 from chin of subject with meter pointing directly at camera

Available Light Portraits

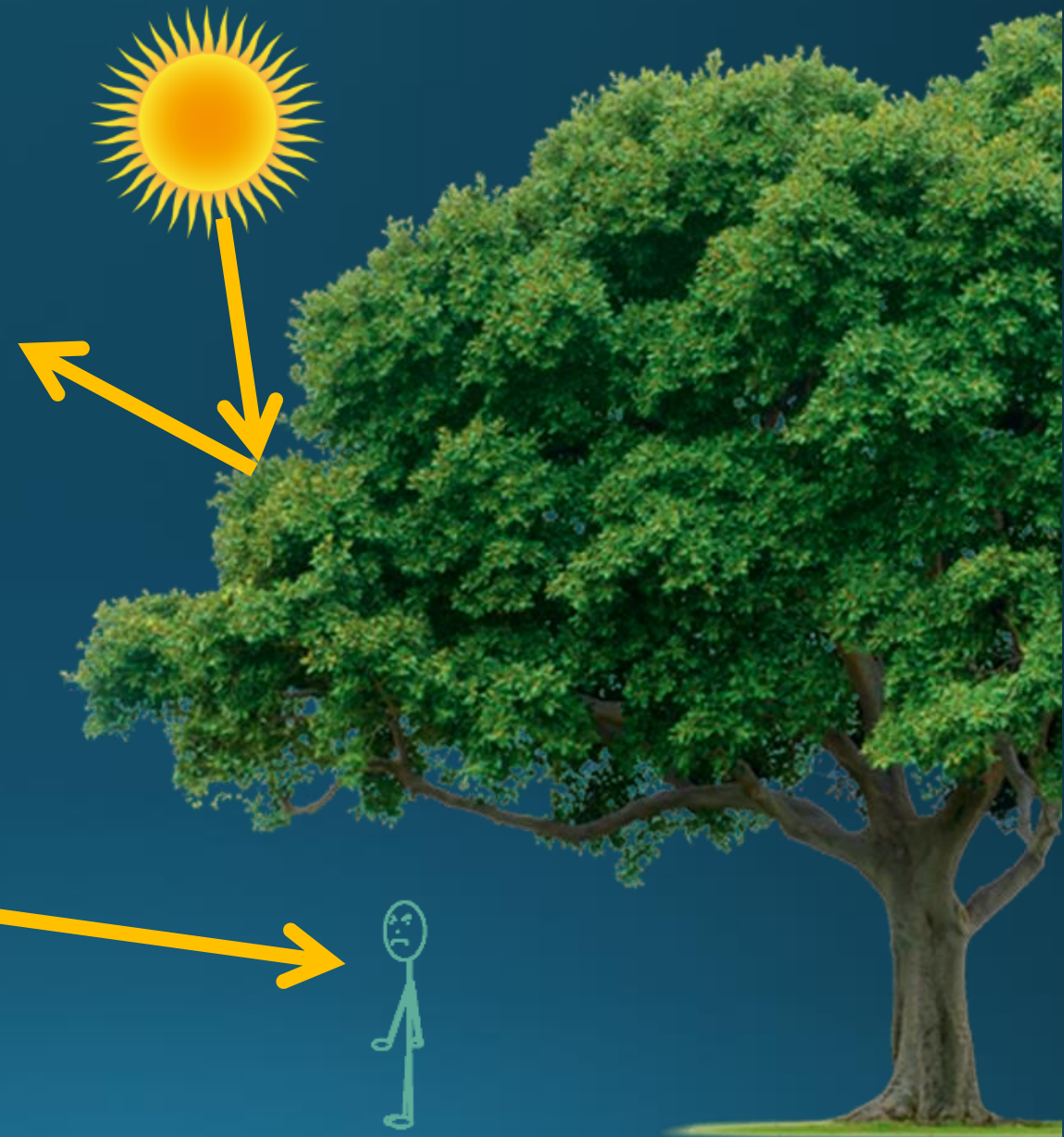
Avoid Overhead Light

Best to have horizontal Light

- Use 70-200 f/2.8 Lens or 85mm f/1.8 Lens
 - Use Lens Hood
- Horizontal Light
 - w/ Overhead cover

Camera

- ISO = 800
- Set Picture Control = Vivid
 - Will be in the Shooting menu
- WB = Auto, Cloudy or Custom
- Shooting Mode = Aperture Priority
- Aperture = f/2.8
- Quality = S Basic
- Lens Focus Switch = A or MA (Not M)
- Camera Focus Switch = AF
- Auto Focus to AF-S Group – Put group cluster in center
- Meter = Matrix



Party Pics

Party Pics – Part I

- Camera
 - ISO
 - Indoor or Nighttime = 800
 - Outdoor Daytime = 200
 - Mode = P
 - WB = 5560 K
 - Quality = S Basic
 - Focal Length = 35mm
 - Distance to Subject = 5'-10'
- Speedlight
 - Mode = TTL BL
 - Exposure Comp = +0.7

Party Pics – 2019I

Case Inventory

Camera	<input type="checkbox"/> Camera Body x 2
	<input type="checkbox"/> 18-140m Lens x 2
	<input type="checkbox"/> Lens Hood x 2
	<input type="checkbox"/> Camera Batteries – Charged x 3
	<input type="checkbox"/> Camera Battery Charger
Lighting	<input type="checkbox"/> Speedlights/Strobes x 2
	<input type="checkbox"/> Recently CHARGED & Tested AA batteries x 3 Sets
	<input type="checkbox"/> Flip Brackets x 2
	<input type="checkbox"/> Dedicated Camera to Strobe Cables x 2
	<input type="checkbox"/> AA Battery Charger
	<input type="checkbox"/> Hoodman Viewer/Loupe
Job Bag	<input type="checkbox"/> Memory Cards x 3
	<input type="checkbox"/> Memory Card Envelopes x 3
	<input type="checkbox"/> Zippered Card Pouch
	<input type="checkbox"/> 10 – Pens
	<input type="checkbox"/> Marketing Cards (If appropriate to the event)
	<input type="checkbox"/> QEMS Assignment Sheet
PhotoMatch	<input type="checkbox"/> PhotoMatch Tablet x 2 (Charged, Updated, Cleansed)
	<input type="checkbox"/> Tablet Charger x 2 (appropriate to tablet model)
	<input type="checkbox"/> Tablet Harness or Holder
	<input type="checkbox"/> Short USB Camera Cable x 2
	<input type="checkbox"/> Right Angle USB Adapter x 2
	<input type="checkbox"/> Hot Spot Router (Charged) & Power Supply

Setup & Settings

Camera Settings	<input type="checkbox"/> Mount Camera to Flip Bracket
	<input type="checkbox"/> Verify that camera has fully charged battery
	<input type="checkbox"/> Shooting Mode to Program (P)
	<input type="checkbox"/> Set QUAL to S Basic
	<input type="checkbox"/> Set WB to K and 5560 Kelvin
	<input type="checkbox"/> Set ISO 800 for Indoor & Night / 200 for Outdoor Day
	<input type="checkbox"/> Verify that Auto ISO is turned OFF!!!!!!!!!!!!
	<input type="checkbox"/> Set Focus Mode to AF-S Auto
	<input type="checkbox"/> Lens Autofocus switch to A or MA (Not M)
	<input type="checkbox"/> Camera Body Autofocus switch to AF
Flash settings	<input type="checkbox"/> Set Metering to Matrix
	<input type="checkbox"/> Set +/- Exposure Compensation to 0.0 (button near trigger)
	<input type="checkbox"/> Set Flash Compensation to 0.0 (button on front left of camera)
	<input type="checkbox"/> Mount Lens Hood on Lens & Verify Lens is Clean
	<input type="checkbox"/> Set Focal Length to 35mm
	<input type="checkbox"/> Tape Front and Rear Control Dials
	<input type="checkbox"/> Mount Dedicated Flash to Bracket
	<input type="checkbox"/> Insert Fully Charged (and Tested) AA Batteries
	<input type="checkbox"/>
PM	<input type="checkbox"/> Power on Flash & Set Mode to TTL BL
	<input type="checkbox"/> Verify that flash unit exposure comp on flash is +0.7
	<input type="checkbox"/> Verify Flash head is @ 90 degree angle (no bounce)
	<input type="checkbox"/>
	<input type="checkbox"/> Hook up tablet to Camera
	<input type="checkbox"/> Verify if using Text Collection or Upload Only
	<input type="checkbox"/> Log into PhotoMatch

Distances & Cropping



2 People – Vertical – 5' with 5" between top of head and top of frame & centered left to right.



3 People – Horizontal – 5' with 5" between top of head and top of frame & centered left to right with side cropping on outside edge of shoulders.



4-5 People – Horizontal – 7' with 5" between top of head and top of frame & centered left to right with 5" between outside of shoulders and side edges of frame.



6-7 People – Horizontal – 7' with subjects in two rows. Top of frame is 5" over top of back row of heads and subjects are centered left to right with 5" between outside of shoulders and side edges of frame.



8+ People – Horizontal – 10' with subjects in two rows. Leave 1/2 body space each side of group. If there is extra space above and below the subjects, then center them up and down. For larger groups, adjust distance accordingly and leave a half body space on each side of the group for every 10 people in the group.

Party Pics – Part II

- Camera
 - ISO
 - Indoor or Nighttime = 800
 - Outdoor Daytime = 200
 - Mode = P
 - WB = 5560 K
 - Quality = S Basic
 - Focal Length = 35mm
 - Distance to Subject = 5'-10'
- Speedlight
 - Mode = TTL BL
 - Exposure Comp = +0.7

Pattern Shooting

Avoid taking duplicates of photos unless one of the subjects blinked or was not ready for the photo. Take advantage of the potential variations of photos that can be achieved from photos of multiple couples, groups, families, mixed groups, etc.

Example 1

1. Take photo of the group (Such as 2 Couples)
2. Take photo of the left couple
3. Take photo of the right couple
4. Those on end
5. Those in middle



Example 2

1. Take photo of the family
2. Take photo of the parents
3. Take photo of the kids
4. Take photo of mom with kids
5. Take photo of dad with kids
6. Take photo of just the males
7. Take photo of just the females



Example 3

6. Take photo of the group (Such as 2 Couples)
7. Take photo of the left couple
8. Take photo of the right couple
9. Take photo of the guys
10. Take photo of the women

No cups in pictures!!!!

Use white or green dot in viewfinder to verify your photos are in focus. Solid dot = in focus



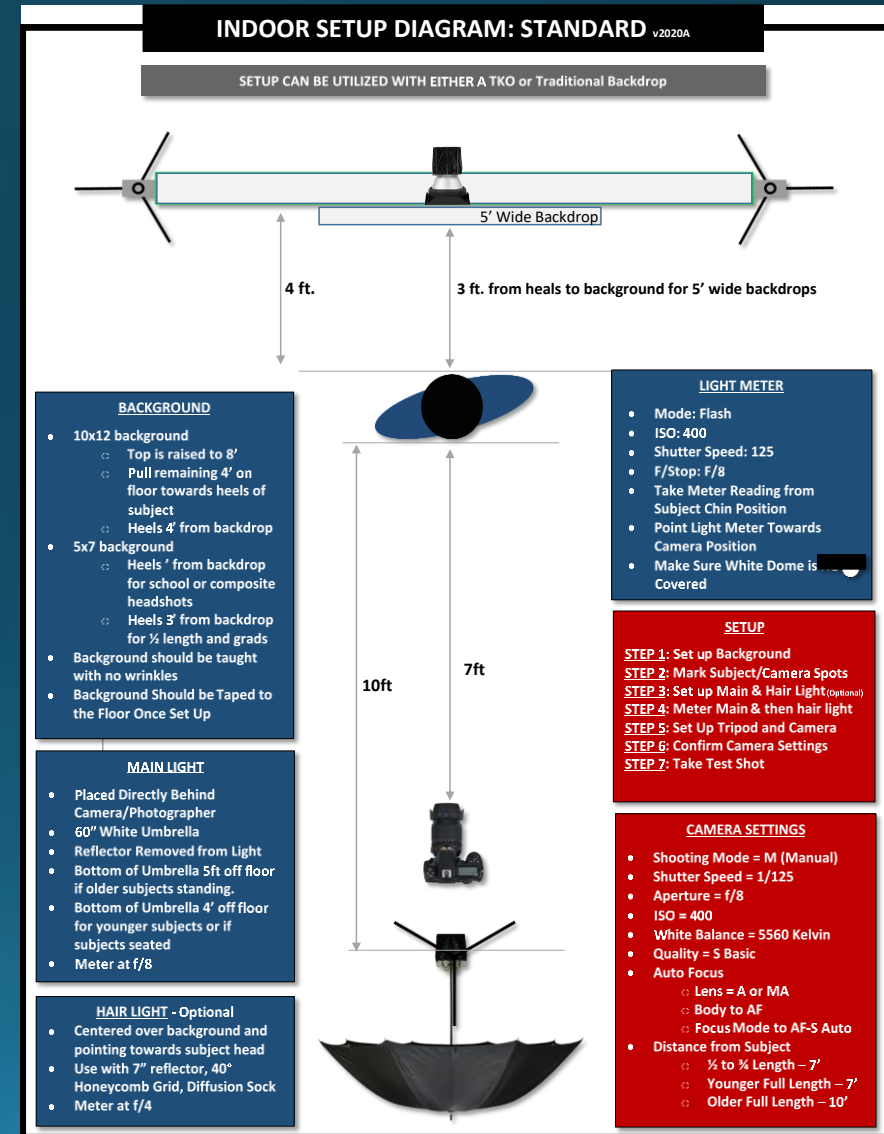
Exposure Compensation - If subjects are primarily wearing darker clothing or dark grad gowns, and exposures are looking to bright, adjust the exposure compensation button near the camera trigger release to -0.3. In extreme cases, you may need to go to -0.7. You should always start an event with this at 0.0 and evaluate your first photos and then adjust. DO NOT adjust the Flash Compensation.

Groups

Virtual Groups

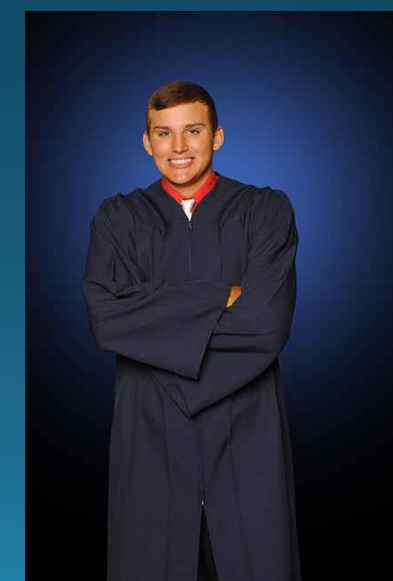
Virtual Groups – Single Light w/ Optional Hair Light

- Camera
 - ISO = 400
 - ISO800 if using natural venue background
 - Mode = M
 - Shutter Speed = 1/125
 - Aperture = f/8
 - WB = 5560 K
 - Quality = S Basic
 - Focal Length = 24-50mm - Crop for shins to knees up
 - Distance to Subject = 7'
 - Subject Heels to Background
 - 4' for 10' Wide Backdrop – 5' if Chroma-Key
 - 3' for 5' Wide Backdrop – 4' if Chroma-Key
- Main Studio Light
 - Power = Meter to f/8
 - Distance to Subject = 10'
- Hair Light - Optional
 - Power = Meter to f/4-f/5.6



Virtual Group Poses

- Crop from shins to knees up
- Use the same distance and focal length for each person for continuity



Bid Day Groups

Step 1 Arrival Checklist

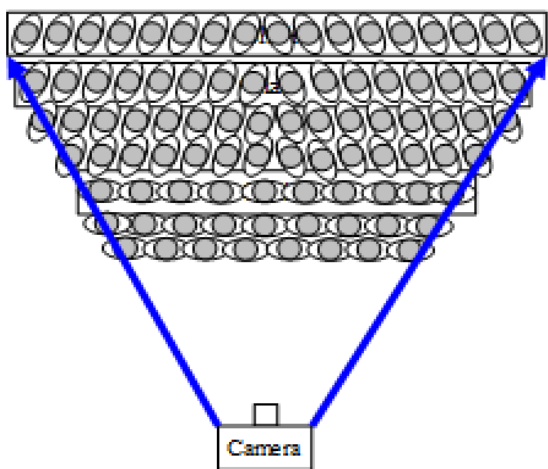
- Locate Candid Photographer & Group Helper
- Review schedule with helper & candid photographer
- Locate Sorority Contact
- Review Group Schedule with Contact
- Move obstructions from group location-Cars, etc
- Confirm # of actives & # of new members
- Confirm preferred location of new members and seniors within chapter group
- Review Group location
- Review Backup Rain Location
- Request chairs or benches

Step 2 Equipment Setup

- Setup Cameras and strobes and any studio lights.
- Perform equipment checks

Step 3 Group Setup

- Determine # of rows required & width of group
- allow approx. 1 1/2 foot per person.
- Setup chairs
- Put chairs against each other in row.



Step 4 Metering The Group

- Align camera with group (from ladder if used)
- Check cropping for first group-10x18 or 8x10?
- Align studio light
- Confirm ISO on light meter matches camera ISO
- Set Shutter Speed on light meter to 1/125
- Confirm that meter dome is in the correct position
- Take meter reading of studio light from center front sitting row of group and adjust strobe until f/11 on meter
- Meter each corner of group and adjust light up/down/left right to get the best balance of light coverage. DO NOT exceed f/11 on the front sitting area of the group

- Load digital camera with memory card
- Check cameras for correct ISO, shutter speed, f-stop
- Check for clean lens and lens flare
- Cover camera with white towel to keep sun off
- Cover with plastic bag if it might rain
- Confirm that your equipment is safe from theft

Step 5 Order Card Prep

- Review order method with helper & candid photog
- Remind candid photog to NOT shoot classes
- Practice sales pitch

Step 6 Help shoot Party Pics

- Setup Party Pic rig
- Store flash card in safe location after done

Step 7 Populating the Group

- Move people to chairs-pack them tightly
- Fill sitting chairs first-have them share a chair
- Fill kneelers, then sitters on ground next
- Fill standing rows-front row standing leans forward
- Fill standing in chair rows
- Turn everyone towards center & pack them in
- Add another row of laying on ground in front or add chairs to side if entire group will not fit.

Step 8 Final Alignment/Cropping

- Confirm that cropping is correct in primary and backup cameras

-10x18 cropping is within 1 body on each side of group between left and right edges of viewfinder

--Leave space for title at bottom

-You will lose approx. 8.5% off the top of the image & 8.5% off the bottom in the final 10x18 print.



-8x10 cropping is edge to edge top to bottom

-Leave 1/2 body space inside the concave cropping lines visible in the viewfinder on the left & right side of group.

-Leave space for title at bottom

-You will lose approx. 8.5% off the left side of the image & 8.5% off the right side of the final 8x10 print.



Step 9 -Final Meter Reading

- Re-meter ambient light & strobes if necessary
- Re-measure distance 1/3 into group if camera has been moved backward or forward

Step 10-Sales Pitch

- Hand out order cards as you are forming the grp
- Do sales pitch-See Script

Step 11-Shooting the Groups

- Shoot 3 shots of each pose

Bracket exposures

1/3 Stop Under, Normal, 1/3 Stop Over

Shooting Sequence - If SO, JR, SR done earlier

New Member Formal

New Member Crazy

Chapter Formal

Chapter Crazy

If doing all classes after New Member arrival

Chapter Formal

Chapter Crazy

New Member Formal

New Member Crazy

Senior Formal

Senior Crazy

Junior Formal

Junior Crazy

Sophomore Formal

Sophomore Crazy

- Collect cards in bucket

Step 14-Breakdown

- Fill out sequence card
- Indicate any special instructions or issues
- Unload flash card with camera turned off
- Put media and order cards in job bag
- Make last call for group orders
- Hand out password cards for Party Pics
- Return chairs if needed & clean up your trash
- Thank contact & return job bag to office



# in GP for 10x18	Approx # Rows
50	4
75	4
100	5
125	5
150	6
175	6
200	7
225	7
250	8+



# in GP for 8x10	Approx # Rows
5	1
10	2
15	2
20	3
25	3
30	4
35	4
40	4
45	5
50	5
55	5
60	5
65	6
70	6
75	6
80	7

Camera Kit

- Primary Digital Camera Body
- Primary Lens
- Primary Lens Hood
- Primary Camera Battery
- Primary Hot Shoe Adapter
- Backup Digital Camera Body
- Backup Lens
- Backup Lens Hood
- Backup Camera Battery
- Backup Hot Shoe Adapter
- Camera Battery Charger
- Double Camera Bracket
- Pistol Grip Camera Plate
- Hoodman Viewer
- Light Meter

Studio Lighting Kit

- Primary WL 3200
- Primary Power Cord
- Vagabond
- Extra Vagabond Battery
- Vagabond Charger
- 7" Silver Reflector
- Backup WL 3200
- Backup Power Cord
- Heavy Duty Light Stand
- Stereo Sync Cord Splitter
- 2 Stereo Sync Cords
- Tripod with head
- Barrier Stakes x 3

Support Bag

- Job Bag
- Sequence Card
- Assignment Sheet
- 3-2GB Memory Cards
- Group Order Cards
- Sharpie
- 300 Pens
- Rubber Bands
- Sample Board
- Sample Banner with two clamps
- Collection Bucket w/ Flag
- Gaffer Tape
- Towel
- Barrier Ribbon
- 100' plastic
- 4 Ponchos
- 2 Large Trash Bags

MISC

- Cooler with water
- Ladder
- Light Mast attached to Ladder
- Pistol Grip attached to Ladder
- Rain Umbrella
- Large Bullhorn with Batteries
- Small Backup Bullhorn with Batteries

Digital Bid Day Groups

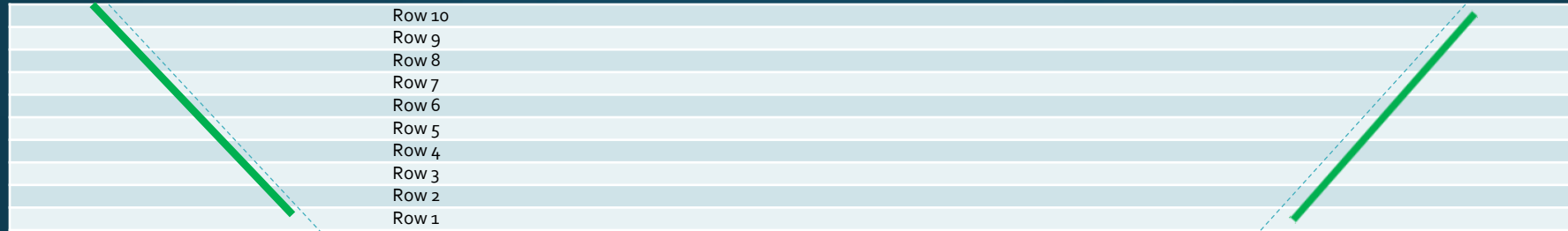
Version 2019B

Digital Camera Settings

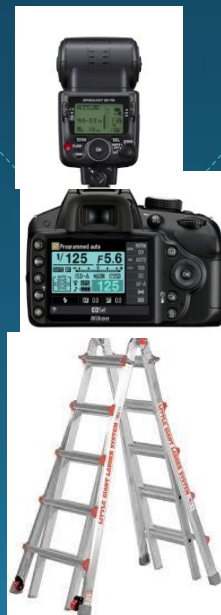
	Indoors/Night	Cloudy (No Shadows)	Full, Back or Side Sun
Focal Length	20mm on lens barrel optimal		
Focus	AF-S Auto	AF-S Auto	AF-S Auto
Shooting Mode	Manual	Manual	Manual
Shutter Speed	125	125	250
Aperture	f/10, f/11, f/13	f/10, f/11, f/13	f/13, f/14, f/16
Bracketing	Bracket 1/3 Under, Normal, 1/3 Over		
ASA/ISO	400	200	200
White Balance	5560 K	5560 K	5560 K
Resolution - Pixel Count	Large	Large	Large
Quality - Compression	RAW & Fine	RAW & Fine	RAW & Fine

Traditional School Groups

Traditional School Group



Middle Row in feet
Students x 1.5/# of Rows



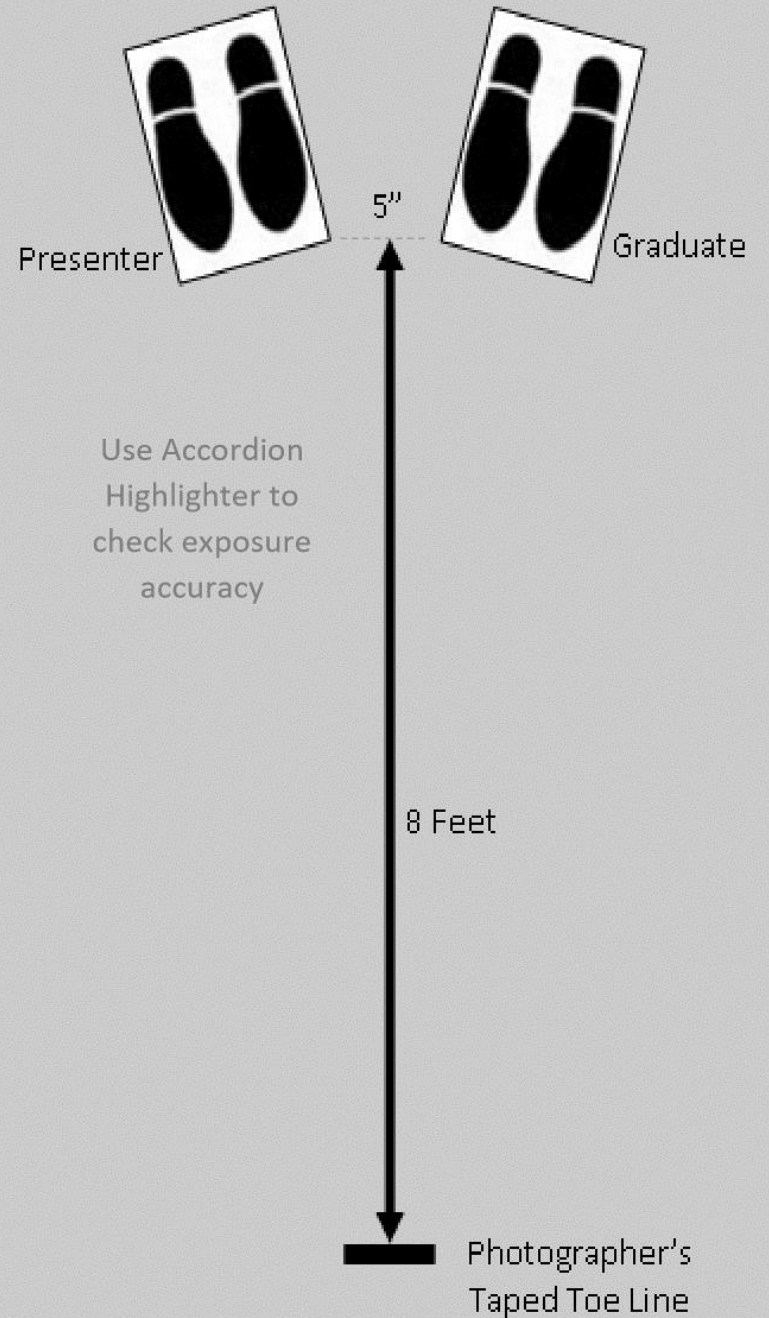
Traditional School Group Setup

1. # of Students X 1.5/# of Rows = length of middle row
2. Mark left and right edges of middle row
3. Set camera on 24mm and step backwards from bleachers until middle row edge markers are on left and right edges of camera view finder.
4. Set ladder up at this point to maximum height. 9'-11'
5. Mount camera on ladder and position boundary tape so that it appears vertically in the view finder.
6. Mount primary camera & backup camera to tripod bracket attached to top of ladder. Use show mount strobes pointed towards one of the studio lights to trigger them using the built in photo slave.
6. Meter lights across the front, middle and back of group at ISO800. Adjust light angles slightly up and down and side to side until meter readings across group are within 1/2 f-stop of each other. If aperture is less than f5.6, add additional lights or use a camera that can handle iso1600 cleanly.
7. Take test pictures on camera at 1/125 shutter, f stop to match meter reading, white balance Flash, large fine raw quality.
8. Populate group and pull taped boundaries
9. Bracket +1/3ev, oev, -1/3ev and zoom in so edge of group is very close to edge of viewfinder.
10. Do the same for the backup.

Graduations

Indoor Grads - Handshakes

- Camera
 - ISO = 800
 - Mode = M
 - Shutter Speed = 1/125
 - Aperture = f/8
 - WB = 5560 K
 - Quality = S Basic
 - Focal Length = 35mm
 - Distance to Subject = 8'
- Speedlight
 - Mode = M
 - Power = 1/32



Indoor Grads - Hoodings

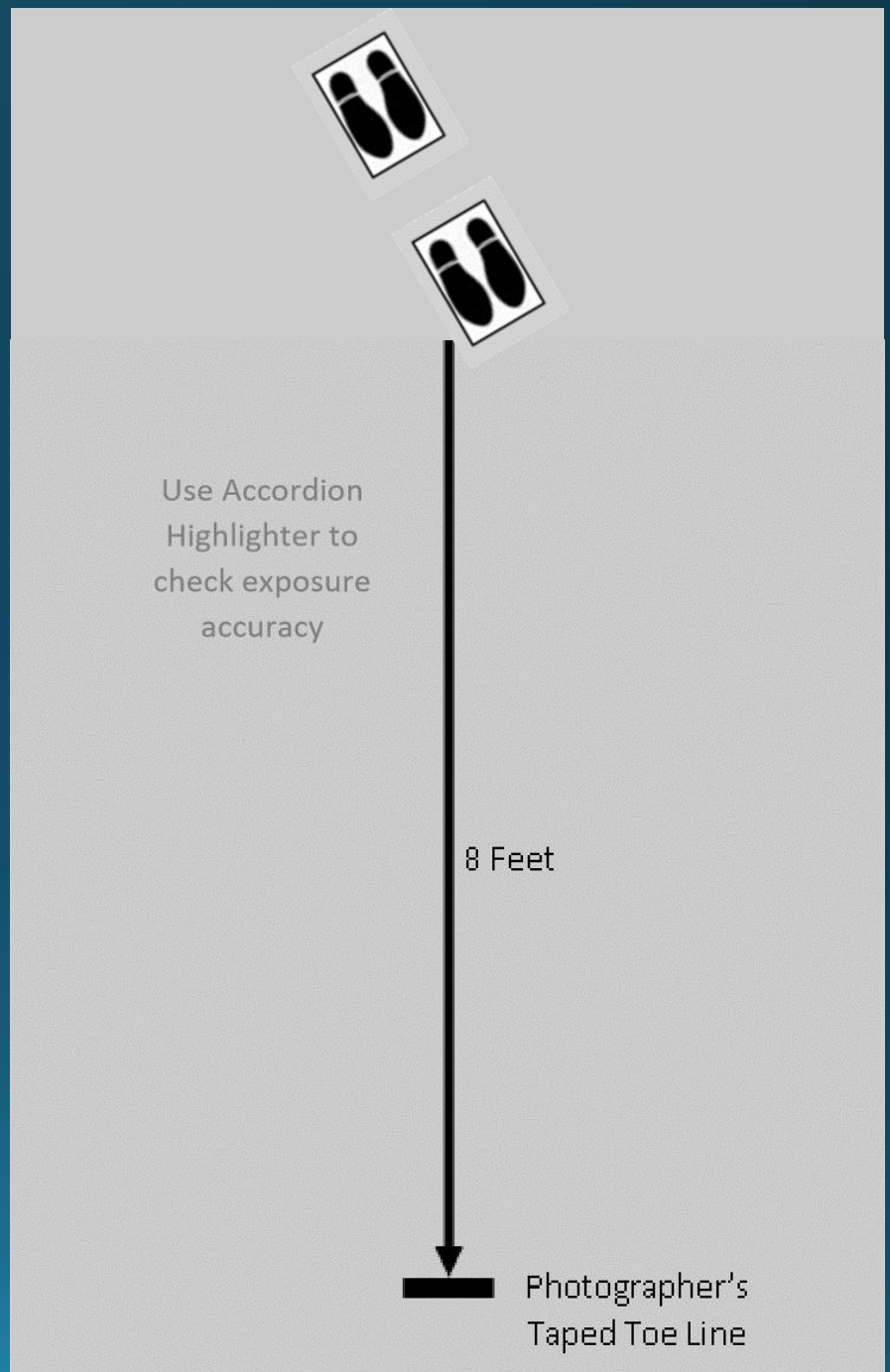
- Camera

- ISO = 800
- Mode = M
- Shutter Speed = $1/125$
- Aperture = $f/8$
- WB = 5560 K
- Quality = S Basic
- Focal Length = 35-50mm
- Distance to Subject = 8'



- Speedlight

- Mode = M
- Power = $1/32$



Indoor Grads TKO Portraits

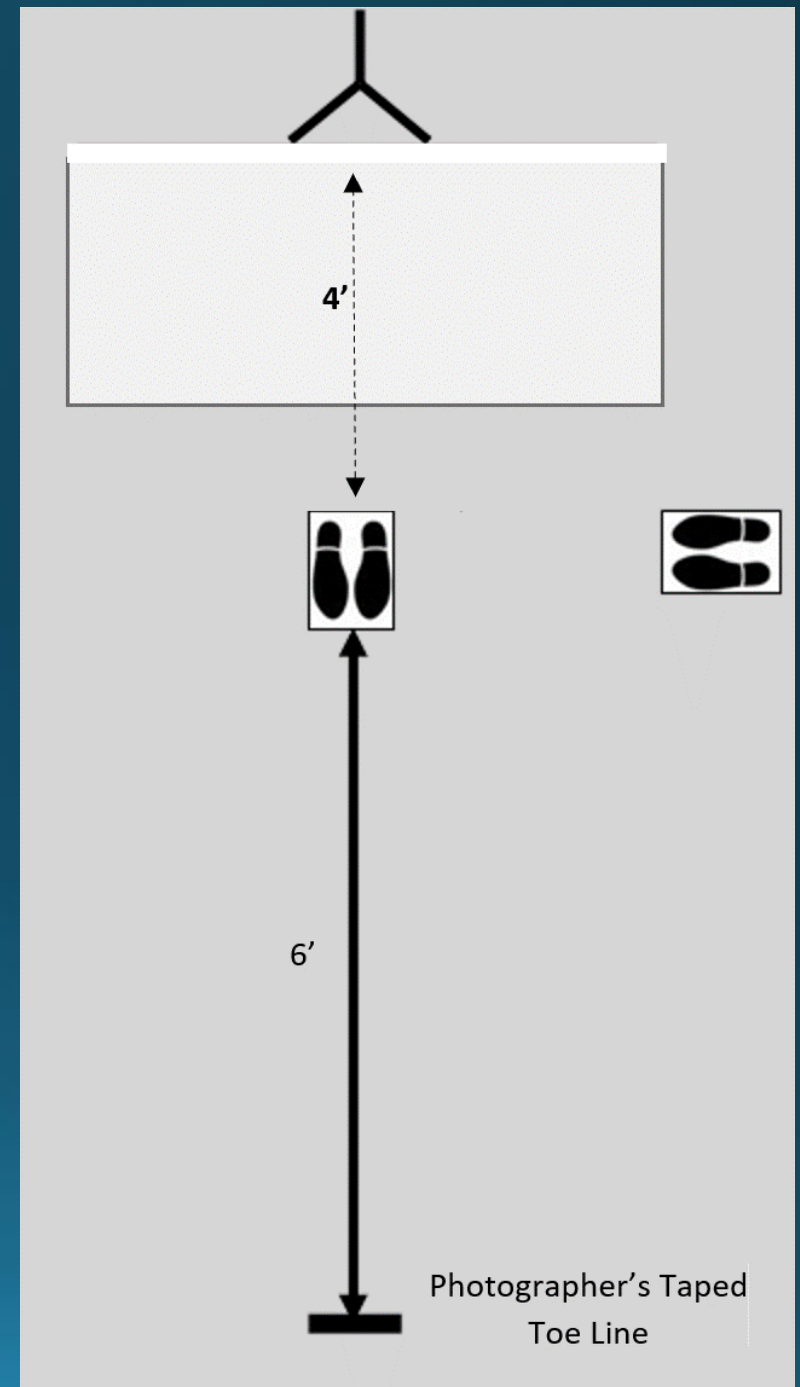
- Camera

- ISO = 800
- Mode = M
- Shutter Speed = $1/125$
- Aperture = $f/8$
- WB = 5560 K
- Quality = S Basic
- Focal Length = 50mm
- Distance to Subject = 6'
- Subject Heels to Background = 4'



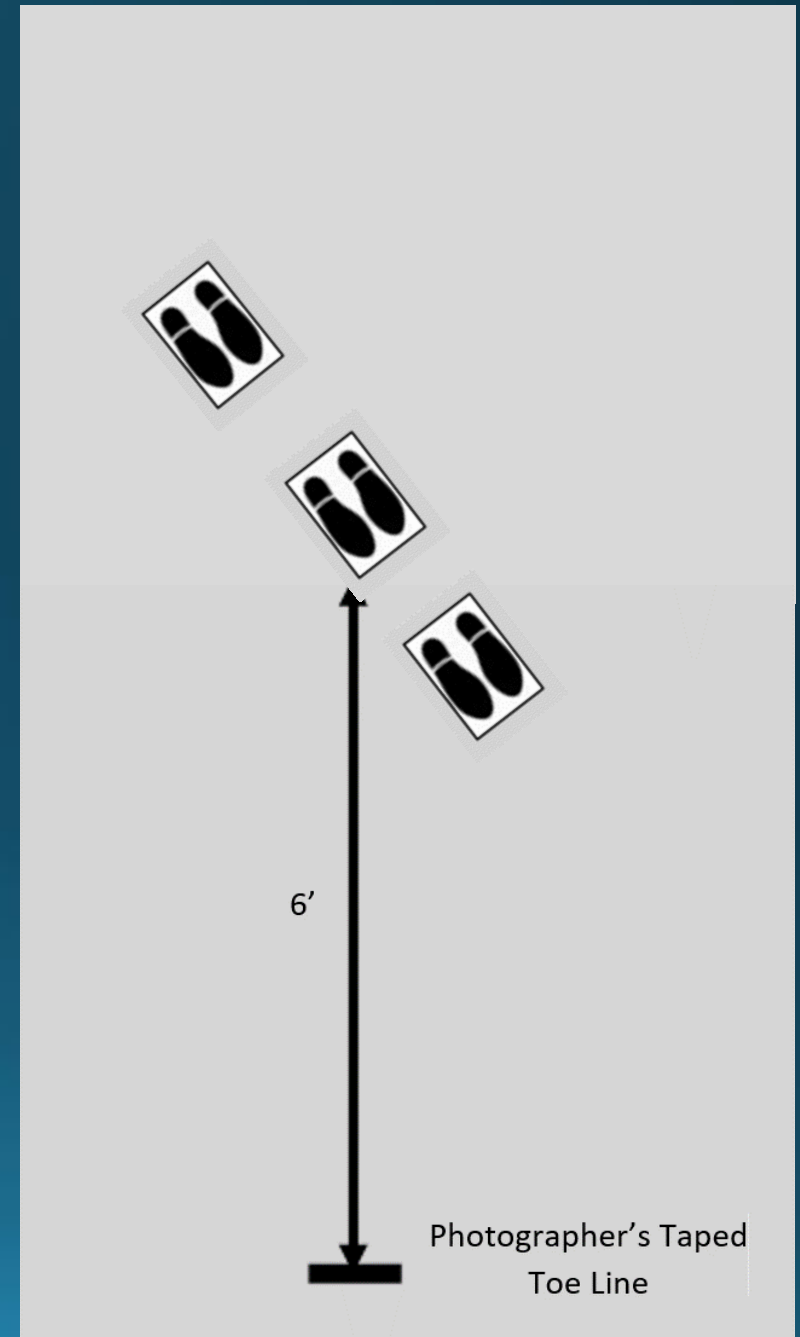
- Speedlight

- Mode = M
- Power = $1/4$ with Disc Diffuser



Indoor Grads Processionals

- Camera
 - ISO = 1600
 - Mode = S
 - Shutter Speed = 1/125
 - Camera Exposure Comp = 0.0 to -0.3
 - WB = Auto
 - Quality = S Basic
 - Focal Length = 50mm
 - Distance to Subject = 6'
- Speedlight
 - Mode = TTL BL
 - Flash Exposure Comp = 0.0



Indoor Grads Buddies, Friends & Family

- Camera
 - ISO = 1600
 - Mode = S
 - Shutter Speed = 1/125
 - Camera Exposure Comp = 0.0 to -0.3
 - WB = Auto
 - Quality = S Basic
 - Focal Length = 18-35mm
 - Distance to Subject = 5'-10'
- Speedlight
 - Mode = TTL BL
 - Flash Exposure Comp = 0.0



Indoor Grads

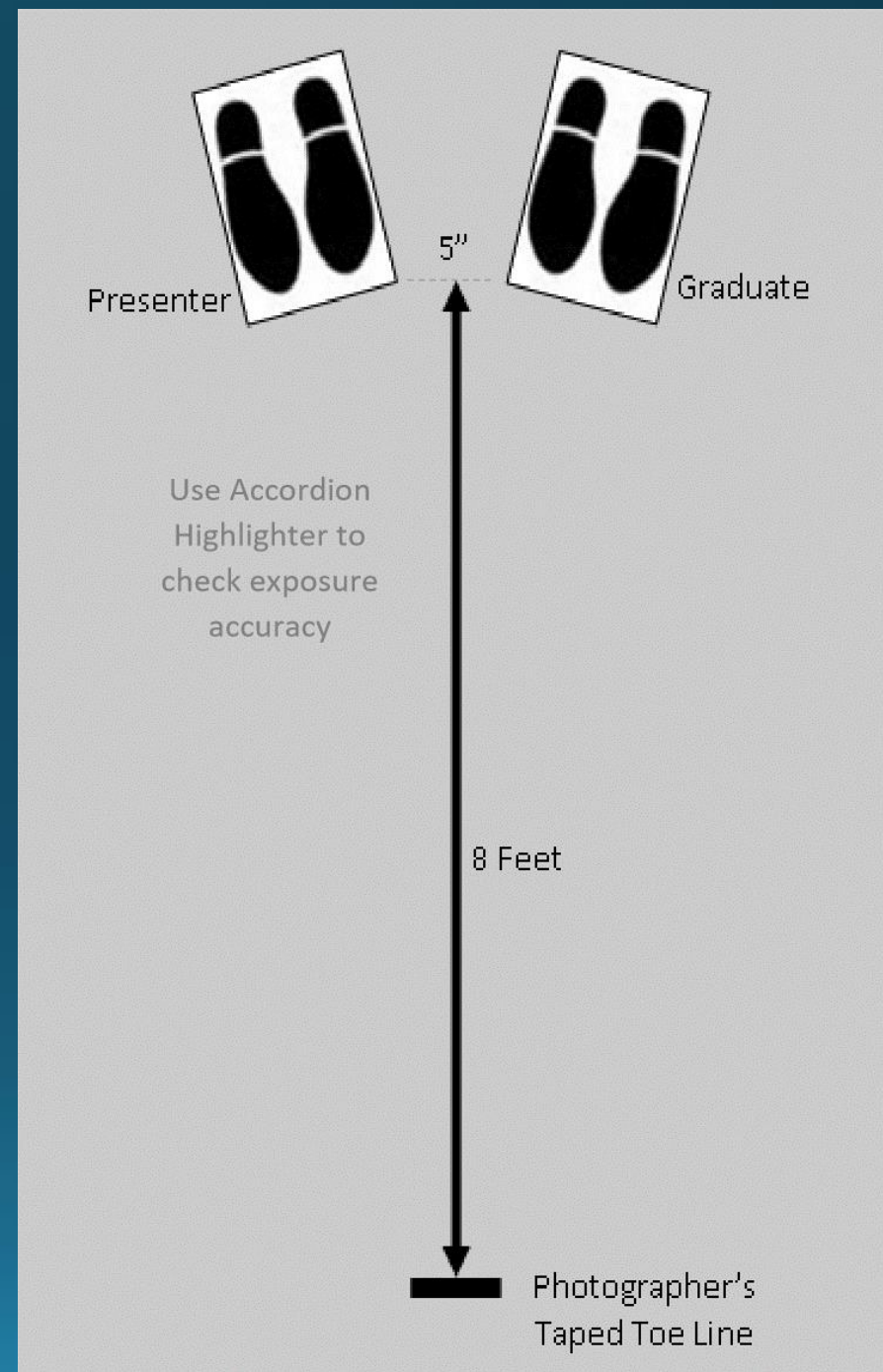
PR / Public Relations

- Camera
 - ISO = 1600
 - Mode = S
 - Shutter Speed = 1/125
 - Camera Exposure Comp = 0.0 to -0.3
 - WB = Auto
 - Quality = S Basic
 - Focal Length = As Needed
 - Distance to Subject = As Needed
- Speedlight
 - Mode = TTL BL
 - Flash Exposure Comp = 0.0



Outdoor Grads Handshakes & 2nd Shots

- Camera
 - ISO = 200
 - Mode = M
 - Shutter Speed = 1/250
 - Aperture
 - f/8 for Shade
 - f/11 for Overcast or Backlit Sun
 - f/14 for Full or Side Sun
 - WB = 5560 K
 - Quality = S Basic
 - Focal Length
 - 35mm for Handshakes
 - 70mm for 2nd Shots
 - Distance to Subject = 8'
- Speedlight
 - Mode = M
 - Power = 1/4



Outdoor Grads – HSS 2nd Shots w/ Natural Background

- Camera
 - ISO = 100
 - Mode = M
 - Shutter Speed
 - Sunny = 1/3200
 - Cloudy = 1/1600
 - Dark Clouds = 1/800
 - Aperture = f/2.8
 - WB = 5560 K or 5600 K
 - Quality = S Basic
 - Focal Length = 50mm
 - Distance to Subject = 6'
- Speedlight
 - Mode = TTL BL



Monitors

Dell U2417 H Calibratable Monitor



- <https://www.amazon.com/Dell-Ultrasharp-inch-Infinity-Monitor/dp/B01IRRGH7M>
- Great for more accurate viewing and evaluation of image exposure and color