

| Field Name           | Field Type           | Formula / Entry Option   |
|----------------------|----------------------|--|
| AppletNumber         | Calculation (Number) | = If(PanoType = "Applet",Number,"")  |
| Code                 | Calculation (Text)   | <pre> Unstored calculation = If(PanoNumber = -1,CodeGlobalParameters,  If(PanoType = "Applet", CodeHelper ,  ("&lt;!-- #" &amp; PanoNumber &amp; " " &amp; PanoDescription &amp; " --&gt;" &amp; "&lt;param name=pano" &amp; PanoNumber &amp; " value=" &amp; """" &amp;  CodePanoParams &amp; CodeSHotspots &amp; CodeHotspots &amp;  """" &amp; "&gt;")  ) ) </pre>  |
| CodeGlobalParameters | Calculation (Text)   | <pre> Unstored calculation = "&lt;html&gt;" &amp; &lt;head&gt;" &amp; &lt;meta http-equiv=" &amp; """" &amp; "Content-Language" &amp; """" &amp; " content=" &amp; """" &amp; "en-au" &amp; """" &amp; "&gt;" &amp; &lt;meta http-equiv=" &amp; """" &amp; "Content-Type" &amp; """" &amp; " content=" &amp; """" &amp; "text/html; charset=windows-1252" &amp; """" &amp; "&gt;" &amp; &lt;title&gt;Big Ben's Melbourne University Tour&lt;/title&gt;" &amp; &lt;/head&gt;" &amp; &lt;body&gt;" &amp; &lt;applet achive=ptviewer.jar code=ptviewer.class width=" &amp; GlobalWidth &amp; " height=" &amp; GlobalHeight &amp; " mayscript=true name=ptviewer"&gt;" &amp; &lt;param name=file value=" &amp; GlobalFile &amp; "&gt;" &amp;  If( IsEmpty(GlobalBGColour), "" , "&lt;param name=bgcolor value=" &amp; GlobalBGColour &amp; "&gt;" &amp; &lt;param name=grid_bgcolor value=" &amp; GlobalBGColour &amp; "&gt;" &amp; If( IsEmpty(GlobalWait), "" , "&lt;param name=wait value=" &amp; GlobalPathToGraphics &amp; GlobalWait &amp; "&gt;" ) &amp; If( IsEmpty(GlobalWaitTime), "" , "&lt;param name=waittime value=" &amp; GlobalWaitTime &amp; "&gt;" ) &amp;  If( IsEmpty(GlobalViewX), "" , "&lt;param name=view_x value=" &amp; GlobalViewX &amp; "&gt;" ) &amp; If( IsEmpty(GlobalViewY), "" , "&lt;param name=view_y value=" &amp; GlobalViewY &amp; "&gt;" ) &amp; If( IsEmpty(GlobalViewHeight), "" , "&lt;param name=view_height value=" &amp; GlobalViewHeight &amp; "&gt;" ) &amp; If( IsEmpty(GlobalViewWidth), "" , "&lt;param name=view_width value=" &amp; GlobalViewWidth &amp; "&gt;" ) &amp;  If( IsEmpty(GlobalBarX), "" , "&lt;param name=bar_x value=" &amp; GlobalBarX &amp; "&gt;" ) &amp; If( IsEmpty(GlobalBarY), "" , "&lt;param name=bar_y value=" &amp; GlobalBarY &amp; "&gt;" ) &amp; If( IsEmpty(GlobalBarWidth), "" , "&lt;param name=bar_width value=" &amp; GlobalBarWidth &amp; "&gt;" ) &amp; If( IsEmpty(GlobalBarHeight), "" , "&lt;param name=bar_height value=" &amp; GlobalBarHeight &amp; "&gt;" ) &amp; If( IsEmpty(GlobalBarColor), "" , "&lt;param name=barcolor value=" &amp; GlobalBarColor &amp; "&gt;" ) &amp;  If( IsEmpty(GlobalFrame), "" , "&lt;param name=frame value=" &amp; GlobalPathToGraphics &amp; GlobalFrame &amp; "&gt;" ) &amp;  If( IsEmpty(GlobalCache), "" , "&lt;param name=cache value=" &amp; GlobalCache &amp; "&gt;" ) &amp; If( IsEmpty(GlobalQuality), "" , "&lt;param name=quality value=" &amp; GlobalQuality &amp; "&gt;" ) &amp; If( IsEmpty(GlobalMass), "" , "&lt;param name=mass value=" &amp; GlobalMass &amp; "&gt;" ) &amp; If( IsEmpty(GlobalAntialias), "" , "&lt;param name=antialias value=" &amp; GlobalAntialias &amp; "&gt;" ) &amp; If( IsEmpty(GlobalOversampling), "" , "&lt;param name=oversampling value=" &amp; GlobalOversampling &amp; "&gt;" ) &amp; If( IsEmpty(GlobalMaxArray), "" , "&lt;param name=maxarray value=" &amp; GlobalBarY &amp; "&gt;" ) &amp;  If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 1)), "" , GetRepetition( SubcodeGlobalSHotspot, 1)) &amp; If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 2)), "" , GetRepetition( SubcodeGlobalSHotspot, 2)) &amp; If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 3)), "" , GetRepetition( FM2PTV.fp5 </pre> |

| Field Name   | Field Type         | Formula / Entry Option  |
|--------------|--------------------|---|
|              |                    | SubcodeGlobalSHotspot, 3)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber,4)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 4)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 5)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 5)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 6)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 6)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 7)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 7)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 8)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 8)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 9)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 9)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 10)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 10)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 11)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 11)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 12)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 12)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 13)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 13)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 14)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 14)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 15)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 15)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 16)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 16)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 17)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 17)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 18)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 18)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 19)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 19)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 20)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 20)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 21)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 21)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 22)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 22)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 23)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 23)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 24)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 24)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 25)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 25)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 26)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 26)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 27)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 27)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 28)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 28)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber, 29)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 29)) &<br>If( IsEmpty(GetRepetition( GlobalSHotspotNumber,30)), "" , GetRepetition(<br>SubcodeGlobalSHotspot, 30)) |
| CodeHelper   | Calculation (Text) | Unstored calculation<br>= If(PanoType = "Pano","",<br><br>("<param name=" & """" & "applet" & AppletNumber & """" & " value=" & """" &<br>"{code=" & HelperClass & "}" & GetRepetition( SubcodeHelper, 1) &<br>GetRepetition( SubcodeHelper, 2) & GetRepetition( SubcodeHelper, 3) &<br>GetRepetition( SubcodeHelper, 4) & GetRepetition( SubcodeHelper, 5) &<br>GetRepetition( SubcodeHelper, 6) & GetRepetition( SubcodeHelper, 7) &<br>GetRepetition( SubcodeHelper, 8) & GetRepetition( SubcodeHelper, 9) &<br>GetRepetition( SubcodeHelper, 10) & GetRepetition( SubcodeHelper, 11) &<br>GetRepetition( SubcodeHelper, 12) & """" & ">¶" & If( AppletNumber =<br>CountApplet, "</applet>¶¶</body>¶¶</html>" , ""))   |
| CodeHotspots | Calculation (Text) | Unstored calculation<br>= GetRepetition( SubcodeHotspot, 1) &<br>GetRepetition( SubcodeHotspot, 2) &<br>GetRepetition( SubcodeHotspot, 3) &<br>GetRepetition( SubcodeHotspot, 4) &<br>GetRepetition( SubcodeHotspot, 5) &<br>GetRepetition( SubcodeHotspot, 6) &<br>GetRepetition( SubcodeHotspot, 7) &<br>GetRepetition( SubcodeHotspot, 8) &<br>GetRepetition( SubcodeHotspot, 9) &<br>GetRepetition( SubcodeHotspot, 10) &   |







| Field Name     | Field Type         | Formula / Entry Option   |
|----------------|--------------------|--|
| CodeInits      | Calculation (Text) | <pre> GetRepetition( SubcodeHotspot, 251) &amp; GetRepetition( SubcodeHotspot, 252) &amp; GetRepetition( SubcodeHotspot, 253) &amp; GetRepetition( SubcodeHotspot, 254) &amp; GetRepetition( SubcodeHotspot, 255) Unstored calculation = If( GlobalInitsCount = 0, "", ("{"inits=ptviewer:" &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 1)), "", GetRepetition( GlobalInitsList, 1)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 2)), "", GetRepetition( GlobalInitsList, 2)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 3)), "", GetRepetition( GlobalInitsList, 3)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 4)), "", GetRepetition( GlobalInitsList, 4)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 5)), "", GetRepetition( GlobalInitsList, 5)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 6)), "", GetRepetition( GlobalInitsList, 6)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 7)), "", GetRepetition( GlobalInitsList, 7)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 8)), "", GetRepetition( GlobalInitsList, 8)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 9)), "", GetRepetition( GlobalInitsList, 9)) &amp; If( IsEmpty(GetRepetition( GlobalInitsInclude, 10)), "", GetRepetition( GlobalInitsList, 10)) &amp; "}") </pre>  |
| CodePanoParams | Calculation (Text) | <pre> Unstored calculation = If( IsEmpty(PanoFile), "", ("file=" &amp; PanoAutoImageName &amp; "}") &amp; PanoAutoWait &amp; PanoAutoFrame &amp; If(IsEmpty(PanoHotspotMap), "", ("hsimage=" &amp; PanoAutoHotspotMapName &amp; "}") &amp; &amp; (If(IsEmpty(PanoPartialFOV), "", ("pfov=" &amp; PanoPartialFOV &amp; "}") &amp; If( IsEmpty(PanoViewFOV), "", ("fov=" &amp; PanoViewFOV &amp; "}") )) &amp; If( IsEmpty(PanoFOVmax), "", ("fovmax=" &amp; PanoFOVmax &amp; "}") )) &amp; If( IsEmpty(PanoFOVmin), "", ("fovmin=" &amp; PanoFOVmin &amp; "}") )) &amp; If( IsEmpty(PanoPan), "", ("pan=" &amp; PanoPan &amp; "}") )) &amp; If( IsEmpty(PanoPanMax), "", ("panmax=" &amp; PanoPanMax &amp; "}") )) &amp; If( IsEmpty(PanoPanMin), "", ("panmin=" &amp; PanoPanMin &amp; "}") )) &amp; If( IsEmpty(PanoTilt), "", ("tilt=" &amp; PanoTilt &amp; "}") )) &amp; If( IsEmpty(PanoTiltMax), "", ("tiltmax=" &amp; PanoTiltMax &amp; "}") )) &amp; If( IsEmpty(PanoTiltMin), "", ("tiltmin=" &amp; PanoTiltMin &amp; "}") )) &amp; CodeInits </pre>   |
| CodeSHotspots  | Calculation (Text) | <pre> Unstored calculation = SubcodeResetSHotspots &amp; GetRepetition( SubcodeSHotspot, 1) &amp; GetRepetition( SubcodeSHotspot, 2) &amp; GetRepetition( SubcodeSHotspot, 3) &amp; GetRepetition( SubcodeSHotspot, 4) &amp; GetRepetition( SubcodeSHotspot, 5) &amp; GetRepetition( SubcodeSHotspot, 6) &amp; GetRepetition( SubcodeSHotspot, 7) &amp; GetRepetition( SubcodeSHotspot, 8) &amp; GetRepetition( SubcodeSHotspot, 9) &amp; GetRepetition( SubcodeSHotspot, 10) &amp; GetRepetition( SubcodeSHotspot, 11) &amp; GetRepetition( SubcodeSHotspot, 12) &amp; GetRepetition( SubcodeSHotspot, 13) &amp; GetRepetition( SubcodeSHotspot, 14) &amp; GetRepetition( SubcodeSHotspot, 15) &amp; GetRepetition( SubcodeSHotspot, 16) &amp; GetRepetition( SubcodeSHotspot, 17) &amp; GetRepetition( SubcodeSHotspot, 18) &amp; GetRepetition( SubcodeSHotspot, 19) &amp; GetRepetition( SubcodeSHotspot, 20) &amp; GetRepetition( SubcodeSHotspot, 21) &amp; GetRepetition( SubcodeSHotspot, 22) &amp; GetRepetition( SubcodeSHotspot, 23) &amp; GetRepetition( SubcodeSHotspot, 24) &amp; GetRepetition( SubcodeSHotspot, 25) &amp; GetRepetition( SubcodeSHotspot, 26) &amp; GetRepetition( SubcodeSHotspot, 27) &amp; GetRepetition( SubcodeSHotspot, 28) &amp; GetRepetition( SubcodeSHotspot, 29) &amp; GetRepetition( SubcodeSHotspot, 30) &amp; GetRepetition( SubcodeSHotspot, 31) &amp; GetRepetition( SubcodeSHotspot, 32) &amp; </pre> |

| Field Name                         | Field Type           | Formula / Entry Option   |
|------------------------------------|----------------------|--|
|                                    |                      | GetRepetition( SubcodeSHotspot, 33) &<br>GetRepetition( SubcodeSHotspot, 34) &<br>GetRepetition( SubcodeSHotspot, 35) &<br>GetRepetition( SubcodeSHotspot, 36) &<br>GetRepetition( SubcodeSHotspot, 37) &<br>GetRepetition( SubcodeSHotspot, 38) &<br>GetRepetition( SubcodeSHotspot, 39) &<br>GetRepetition( SubcodeSHotspot, 40) &<br>GetRepetition( SubcodeSHotspot, 41) &<br>GetRepetition( SubcodeSHotspot, 42) &<br>GetRepetition( SubcodeSHotspot, 43) &<br>GetRepetition( SubcodeSHotspot, 44) &<br>GetRepetition( SubcodeSHotspot, 45) &<br>GetRepetition( SubcodeSHotspot, 46) &<br>GetRepetition( SubcodeSHotspot, 47) &<br>GetRepetition( SubcodeSHotspot, 48) &<br>GetRepetition( SubcodeSHotspot, 49) &<br>GetRepetition( SubcodeSHotspot, 50) &<br>GetRepetition( SubcodeSHotspot, 51) &<br>GetRepetition( SubcodeSHotspot, 52) &<br>GetRepetition( SubcodeSHotspot, 53) &<br>GetRepetition( SubcodeSHotspot, 54) &<br>GetRepetition( SubcodeSHotspot, 55) &<br>GetRepetition( SubcodeSHotspot, 56) &<br>GetRepetition( SubcodeSHotspot, 57) &<br>GetRepetition( SubcodeSHotspot, 58) &<br>GetRepetition( SubcodeSHotspot, 59) &<br>GetRepetition( SubcodeSHotspot, 60) |
| CountApplet                        | Summary (Number)     | = Maximum of AppletNumber  |
| CountGlobalShotspot                | Calculation (Number) | Unstored calculation<br>= Max(GlobalSHotspotNumber) + 1  |
| CountPano                          | Summary (Number)     | = Maximum of PanoNumber  |
| DatePhotographed                   | Date                 |  |
| GlobalAntialias                    | Global (Text)        |  |
| GlobalAutoFilePrefix               | Global (Text)        |  |
| GlobalAutoFileType                 | Global (Text)        |  |
| GlobalAutoHotspotSuffix            | Global (Text)        |  |
| GlobalBarColor                     | Global (Text)        |  |
| GlobalBarHeight                    | Global (Number)      |  |
| GlobalBarWidth                     | Global (Number)      |  |
| GlobalBarX                         | Global (Number)      |  |
| GlobalBarY                         | Global (Number)      |  |
| GlobalBGColour                     | Global (Text)        |  |
| GlobalCache                        | Global (Text)        |  |
| GlobalCursor                       | Global (Text)        |  |
| GlobalFile                         | Global (Text)        |  |
| GlobalFrame                        | Global (Text)        |  |
| GlobalFrameSuffix                  | Global (Text)        |  |
| GlobalGridBackground               | Global (Text)        |  |
| GlobalGridForeground               | Global (Text)        |  |
| GlobalHeight                       | Global (Number)      |  |
| GlobalHotspotDescriptionDelimitter | Global (Text)        |  |
| GlobalInitsCount                   | Calculation (Number) | Unstored calculation<br>= Count(GlobalInitsInclude)  |
| GlobalInitsInclude                 | Text                 | Repeating field with 10 repetitions  |
| GlobalInitsList                    | Global (Text)        | Repeating field with 10 repetitions  |
| GlobalInitsListDescription         | Global (Text)        | Repeating field with 10 repetitions  |
| GlobalJavascript                   | Global (Text)        |  |
| GlobalMass                         | Global (Number)      |  |
| GlobalMaxArray                     | Global (Number)      |  |
| GlobalNumberHotspots               | Global (Number)      |  |
| GlobalNumberShotspots              | Global (Number)      |  |
| GlobalOversampling                 | Global (Number)      |  |
| GlobalPathToGraphics               | Global (Text)        |  |
| GlobalPathToPano                   | Global (Text)        |  |
| GlobalQuality                      | Global (Number)      |  |
| GlobalSHotspotA                    | Global (Number)      | Repeating field with 30 repetitions  |
| GlobalSHotspotAction               | Global (Text)        | Repeating field with 30 repetitions  |
| GlobalSHotspotB                    | Global (Number)      | Repeating field with 30 repetitions  |

| Field Name                  | Field Type           | Formula / Entry Option  |
|-----------------------------|----------------------|---|
| GlobalSHotspotImage         | Global (Text)        | Repeating field with 30 repetitions   |
| GlobalSHotspotNumber        | Global (Number)      | Repeating field with 30 repetitions   |
| GlobalSHotspotType          | Global (Text)        | Repeating field with 30 repetitions   |
| GlobalSHotspotX             | Global (Number)      | Repeating field with 30 repetitions   |
| GlobalSHotspotY             | Global (Number)      | Repeating field with 30 repetitions   |
| GlobalViewHeight            | Global (Number)      |   |
| GlobalViewWidth             | Global (Number)      |   |
| GlobalViewX                 | Global (Number)      |   |
| GlobalViewY                 | Global (Number)      |   |
| GlobalWait                  | Global (Text)        |   |
| GlobalWaitSuffix            | Global (Text)        |   |
| GlobalWaitTime              | Global (Number)      |   |
| GlobalWidth                 | Global (Number)      |   |
| HeaderAuthor                | Global (Text)        |   |
| HeaderTitle                 | Global (Text)        |   |
| Helper                      | Text                 |   |
| HelperClass                 | Text                 | Lookup: Use relationship "PTV_Helpers"<br>"Helper" = "PTV_Helpers::Helper"<br>If exact match, copy: "PTV_Helpers::Code"<br>don't copy "PTV_Helpers::Code" if empty<br>If no match: "Do Not Copy"  |
| HelperDocumentation         | Text                 | Lookup: Use relationship "PTV_Helpers"<br>"Helper" = "PTV_Helpers::Helper"<br>If exact match, copy: "PTV_Helpers::Documentation"<br>don't copy "PTV_Helpers::Documentation" if empty<br>If no match: "Do Not Copy"  |
| HelperParameters            | Text                 | Lookup: Use relationship "PTV_Helpers"<br>"Helper" = "PTV_Helpers::Helper"<br>If exact match, copy: "PTV_Helpers::Parameters"<br>don't copy "PTV_Helpers::Parameters" if empty<br>If no match: "Do Not Copy"<br>Repeating field with 12 repetitions   |
| HelperValue                 | Text                 | Repeating field with 12 repetitions   |
| HotspotA                    | Calculation (Number) | Repeating field with 255 repetitions<br>Evaluate even if all referenced fields are empty<br>$= 50 + ((\text{If}(\text{IsEmpty}(\text{HotspotWidth}), \text{Hotspot}_a, \text{Hotspot}_x + \text{Int}(\text{HotspotWidth} / 2)) - (\text{Extend}(\text{PanolImageWidth}/2)) * (\text{Extend}(\text{PanoFOV})/\text{Extend}(\text{PanolImageWidth}))) / 3.6$    |
| HotspotAction               | Text                 | Repeating field with 255 repetitions  |
| HotspotB                    | Calculation (Number) | Repeating field with 255 repetitions<br>Evaluate even if all referenced fields are empty<br>$= 50 + ((\text{If}(\text{IsEmpty}(\text{HotspotHeight}), \text{Hotspot}_b, \text{Hotspot}_y + \text{Int}(\text{HotspotHeight} / 2)) - (\text{Extend}(\text{PanolImageHeight}/2)) * (\text{Extend}(\text{PanoFOV})/\text{Extend}(\text{PanolImageWidth}))) / 1.8$ |
| HotspotHeight               | Number               | Repeating field with 255 repetitions  |
| HotspotNadirText            | Calculation (Text)   | = Longitude & "l" & Latitude & "l" & DateToText( DatePhotographed )   |
| HotspotNewPanoFromList      | Number               | Lookup: Use relationship "FM2PTV"<br>"HotspotNewPanoListItem" = "FM2PTV::PanoDescription"<br>If exact match, copy: "FM2PTV::Number"<br>don't copy "FM2PTV::Number" if empty<br>If no match: "Do Not Copy"<br>Repeating field with 255 repetitions   |
| HotspotNewPanoListItem      | Text                 | Repeating field with 255 repetitions  |
| HotspotNumber               | Number               | Auto-enter: "0"<br>Strict data type: "Numeric Only"<br>Repeating field with 255 repetitions   |
| HotspotPopuImage            | Text                 | Repeating field with 255 repetitions  |
| HotspotPTVAction            | Text                 | Validation calculation = IsEmpty(HotspotNewPanoFromList)<br>Message: "NewPanofromList already defined"<br>Repeating field with 255 repetitions  |
| HotspotPTVActionDescription | Text                 | Lookup: Use relationship "PTV_Actions"<br>"HotspotPTVAction" = "PTV_Actions::Action"<br>If exact match, copy: "PTV_Actions::Parameters"<br>don't copy "PTV_Actions::Parameters" if empty<br>If no match: "Do Not Copy"<br>Repeating field with 255 repetitions  |
| HotspotPTVActionParameters  | Text                 | Validation calculation = IsEmpty(HotspotNewPanoFromList)<br>Message: "NewPanofromList already defined"<br>Repeating field with 255 repetitions  |
| HotspotTarget               | Text                 | Validation calculation = HotspotURL > 0<br>Message: "No URL defined"<br>Repeating field with 255 repetitions  |

| Field Name             | Field Type           | Formula / Entry Option  |
|------------------------|----------------------|---|
| HotspotType            | Text                 | Auto-enter: "Popup Text"<br>Value List (Custom Values): <input type="checkbox"/> Popup Text<br>Normal Image<br>Warped Image<br>None<br>Repeating field with 255 repetitions                               |
| HotspotURL             | Text                 | Validation calculation = IsEmpty(HotspotNewPanoFromList)<br>Message: "Another action is already defined"<br>Repeating field with 255 repetitions  |
| HotspotWidth           | Number               | Repeating field with 255 repetitions  |
| HotspotX               | Calculation (Number) | Repeating field with 255 repetitions<br>= 50 + ((If( IsEmpty(HotspotWidth), Hotspot_x , Hotspot_x - Int(HotspotWidth / 2) ) - (Extend(PanImageWidth)/2))* (Extend(PanoFOV)/Extend(PanImageWidth)))/3.6    |
| HotspotX Copy          | Calculation (Number) | Repeating field with 255 repetitions<br>= If( IsEmpty(HotspotWidth), Hotspot_x , Hotspot_x - Int(HotspotWidth / 2))   |
| HotspotY               | Calculation (Number) | Repeating field with 255 repetitions<br>= 50 + ((If( IsEmpty(HotspotHeight), Hotspot_y , Hotspot_y - Int(HotspotHeight / 2) ) - (Extend(PanImageHeight)/2))* (Extend(PanoFOV)/Extend(PanImageWidth)))/1.8 |
| HotspotY Copy          | Calculation (Number) | Repeating field with 255 repetitions<br>= If( IsEmpty(HotspotHeight), Hotspot_y , Hotspot_y - Int(HotspotHeight / 2) )  |
| Hotspot_a              | Number               | Validation calculation = IsEmpty(HotspotWidth)<br>Message: "You have specified a width for this hotspot already"<br>Repeating field with 255 repetitions  |
| Hotspot_b              | Number               | Validation calculation = IsEmpty(HotspotHeight)<br>Message: "You have specified a height for this hotspot already"<br>Repeating field with 255 repetitions  |
| Hotspot_x              | Number               | Auto-enter: "0"<br>Repeating field with 255 repetitions   |
| Hotspot_y              | Number               | Auto-enter: "750"<br>Repeating field with 255 repetitions   |
| Latitude               | Text                 | Auto-enter: "S 37° 47."   |
| Longitude              | Text                 | Auto-enter: "E 147° 57."<br>Indexed   |
| ModificationDate       | Date                 | Auto-enter the: "Modification Date"<br>Indexed  |
| Number                 | Number               | Indexed   |
| PanoAutoFile           | Calculation (Text)   | = (If(Number < 10,"00" & Number,If( Number < 100, "0" & Number , Number )))   |
| PanoAutoFrame          | Calculation (Text)   | Unstored calculation<br>= If( IsEmpty(GlobalFrame), (If( PanoFrame = "Auto", "{frame=" & PanoAutoFile & GlobalFrameSuffix & ".gif" & "}" , "{frame=" & PanoFrame & "}" ) ) , "" )                         |
| PanoAutoHotspotMapName | Calculation (Text)   | Unstored calculation<br>= GlobalPathToPano & If( PanoHotspotMap = "auto", PanoAutoFile & GlobalAutoHotspotSuffix & ".gif", PanoHotspotMap)  |
| PanoAutoImageName      | Calculation (Text)   | Unstored calculation<br>= GlobalPathToPano & If( PanoFile = "auto", GlobalAutoFilePrefix & PanoAutoFile & GlobalAutoFileType , PanoFile )   |
| PanoAutoWait           | Calculation (Text)   | Unstored calculation<br>= If( IsEmpty(GlobalWait), (If( PanoWait = "Auto", "{wait=" & PanoAutoFile & GlobalWaitSuffix & ".gif" & "}" , "{Wait=" & PanoWait & "}" ) ) , "" )                               |
| PanoDescription        | Text                 | Unique values only<br>Indexed   |
| PanoFile               | Text                 | Auto-enter: "auto"  |
| PanoFOV                | Calculation (Number) | = If( IsEmpty(PanoPartialFOV), "360" , PanoPartialFOV )   |
| PanoFOVmax             | Number               | Auto-enter: "140"   |
| PanoFOVmin             | Number               | Auto-enter: "35"  |
| PanoFrame              | Text                 |   |
| PanoHotspotMap         | Text                 |   |
| PanImageHeight         | Number               | Auto-enter: "750"   |
| PanImageProportions    | Calculation (Number) | Indexed<br>= If( IsEmpty(PanoPartialFOV), PanImageWidth / PanImageHeight , "" )   |
| PanImageWidth          | Number               | Auto-enter: "1500"  |
| PanoListItem           | Calculation (Text)   | Indexed<br>= If( PanoType = "Applet", "" ,If( Number = -1, "" , PanoDescription ) )   |
| PanoNumber             | Calculation (Number) | Indexed<br>= If(PanoType = "Pano",Number,"")  |
| PanoPan                | Number               |   |
| PanoPanMax             | Number               |   |
| PanoPanMin             | Number               |   |
| PanoPartialFOV         | Number               | Validation calculation = PanoPartialFOV <= 360<br>Indexed   |



| Field Name             | Field Type         | Formula / Entry Option   |
|------------------------|--------------------|--|
|                        |                    | HotspotX & " Y" & HotspotY & If( IsEmpty(Hotspot_a) and IsEmpty(HotspotWidth), "", (" A" & HotspotA)) & If( IsEmpty(Hotspot_b) and IsEmpty(HotspotHeight), "", (" B" & HotspotB)) & SubcodeHotspotType &   |
|                        |                    | If(HotspotType = "Popup Text",(" i\$" & Extend(GlobalHotspotDescriptionDelimitter) & HotspotPopuImage& Extend(GlobalHotspotDescriptionDelimitter)), If(HotspotType = "Normal Image" or HotspotType = "Warped Image",(" i" & HotspotPopuImage& ""),""))   |
|                        |                    | &  |
|                        |                    | If( IsEmpty(HotspotNewPanoFromList), If( IsEmpty(HotspotPTVAction), If( IsEmpty(HotspotURL), "", ("u" & HotspotURL & If( IsEmpty(HotspotTarget), "", (" t" & HotspotTarget & "")) ) ), HotspotPTVAction ), " u'ptviewer:" & If(IsEmpty(HotspotNewPanoFromList),"", "newPanoFromList(" & HotspotNewPanoFromList & ")") & "")) & ""))  |
| SubcodeHotspotType     | Calculation (Text) | Repeating field with 255 repetitions<br>= If( HotspotType = "Popup Text", " p e", If( HotspotType = "Normal Image", " p", If(HotspotType = "Warped Image", " p w","")) )   |
| SubcodeNewPanoFromList | Calculation (Text) | Repeating field with 255 repetitions<br>Indexed<br>= If(IsEmpty(HotspotNewPanoFromList),"", "newPanoFromList(" & HotspotNewPanoFromList & ")")   |
| SubcodePTAGAction      | Calculation (Text) | Repeating field with 10 repetitions<br>Indexed<br>= If( IsEmpty(PTAGAction), "", PTAGAction & ";")   |
| SubcodePTAGURL         | Calculation (Text) | Indexed<br>= If( IsEmpty(PTAGURL), "", (" "" & PTAGURL & "" & If(IsEmpty(PTAGTarget),"", (" t" & PTAGTarget & ""))))   |
| SubcodeResetSHotspots  | Calculation (Text) | Unstored calculation<br>= If( IsEmpty(GetRepetition( SHotspotNumber, 1)), ("{"shotspot" & (CountGlobalShotspot) & "=x0 y0 a0 b0}"), "" )   |
| SubcodeSHotspot        | Calculation (Text) | Repeating field with 60 repetitions<br>Unstored calculation<br>= If( IsEmpty(SHotspotNumber), "", ("{" & "{shotspot" & (SHotspotNumber + CountGlobalShotspot) & "=x" & SHotspot_x & " y" & SHotspot_y & " a" & SHotspot_a & " b" & SHotspot_b & If( IsEmpty(SHotspotType), "", If( SHotspotType= "Popup", " p", " q")) & If( IsEmpty(SHotspotPopuImage), "", " i" & GlobalPathToGraphics & SHotspotPopuImage & "")) & If( IsEmpty(SHotspotNewPanoFromList), If( IsEmpty(SHotspotPTVActionParameters), If( IsEmpty(SHotspotURL), "", ("u" & SHotspotURL & If( IsEmpty(SHotspotTarget), "", (" t" & SHotspotTarget & "")) ) ), (" u'ptviewer:" & SHotspotPTVActionParameters & "")) , " u'ptviewer:" & If(IsEmpty(SHotspotNewPanoFromList),"", "newPanoFromList(" & SHotspotNewPanoFromList & ")") & "")) & "")) |